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DEFENSE ENVIRONMENTAL RESTORATION PROGRAM



ANNUAL REPORT TO CONGRESS

FOR

FISCAL YEAR 1986

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ASSISTANT SECRETARY OF DEFENSE

WASHINGTON, D.C. 20301-6000

ACQUISITION AND LOGISTICS

MAR 17 1987

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Honorable Sam Nunn
Chairman, Committee on Armed Services
United States Senate
Washington, DC 20510

Dear Mr. Chairman:

The attached report provides the information requested under the provisions of Section 211 of the Superfund Amendments and Reauthorization Act of 1986 (SARA), 10 USC 2706.

In FY 1986, the \$360 million provided for Environmental Restoration was used to expand and accelerate studies and remedial actions at more than 1,900 sites on DoD installations. In addition, we have completed or have underway investigations at more than 1,600 formerly owned or used sites and remedial projects at 125 of these sites.

For FY 1987, \$376 million has been appropriated to continue the program momentum. Our top priority continues to be the cleanup of toxic and hazardous waste sites.

We are proud of the progress we have made in our Environmental Restoration Program and I trust this report is responsive to your needs. Thank you for your interest in this matter.

Sincerely,

Handwritten signature of Robert B. Costello

Robert B. Costello



Attachment As stated

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ASSISTANT SECRETARY OF DEFENSE

WASHINGTON, D.C. 20301-8000

ACQUISITION AND LOGISTICS

MAR 17 1987

E

Honorable John C. Stennis
Chairman, Committee on Appropriations
United States Senate
Washington, DC 20510

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Robert B. Costello
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As stated

DEFENSE ENVIRONMENTAL RESTORATION PROGRAM

ANNUAL REPORT TO CONGRESS

FOR

FISCAL YEAR 1986

MARCH 16, 1987

CONTENTS

INTRODUCTION 1
BACKGROUND 1
PROGRAM MANAGEMENT 2
REPORT ON PROGRESS IN IMPLEMENTATION 2
ENVIRONMENTAL RESTORATION RESEARCH, DEVELOPMENT & DEMONSTRATION . 5
CONCLUSION 6

TABLES

1. Summary of DoD Installation Restoration Program Sites
2. Summary of DoD Formerly Owned or Used Sites
3. Summary of Hazardous Wastes Remediation, FY 1986 IRP
4. Summary of Hazardous Waste Sites FY 1987 IRP Defense Priorities List

FIGURE

1. Environmental Restoration Program Funding

ATTACHMENTS

- Tab A. Status of the Department of Defense Installation Restoration Program for Fiscal Year 1986.
- Tab B. Fiscal Year 1986 Annual Report of the Defense Environmental Restoration Program.
- Tab C. Installation Restoration Program Defense Priorities List for Fiscal Year 1987.
- Tab D. Status Report of DoD sites proposed for the National Priority List, March 1987.
- Tab E. Report of the DoD/EPA/DOE Working Group to Explore Hazardous Waste Technology Cooperative Efforts, December 1986.

INTRODUCTION

The Superfund Amendment and Reauthorization Act of 1986, PL 99-499, (SARA), provides DoD the opportunity to report to the Congress on the significant progress made in the Defense Environmental Restoration Program in FY 1986.

This report responds to the specific information requested by Section 211 of the SARA (codified at 10 USC 2706) and provides additional information on other program initiatives.

BACKGROUND

The Department of Defense, like private industry, engages in many industrial and manufacturing operations and, in the course of doing so uses large amounts of industrial chemicals. Although, in the past, waste from these operations was disposed of by accepted practices, we have found that past practices may have resulted in inadvertent environmental contamination and risks to people and the environment. In response to that knowledge, programs were developed in the late 1970s by the military services to identify and assess the problems on active military installations.

In FY 1984 the Congress established the Defense Environmental Restoration program in order to provide increased emphasis and visibility for an expanded effort in environmental restoration. The program was expanded to include sites formerly owned or used by the DoD and broadened to include technology development, removal of structures or debris which are unsafe or constitute a hazard and other activities for waste reduction and improvements in site remediation practices.

SARA provides the continuing authority for the Secretary of Defense to carry out the Environmental Restoration Program. This new legislation tightened schedules for National Priorities List (NPL) sites and increased EPA and states involvement in the environmental restoration process.

Executive Order 12580, on Superfund Implementation, delegates certain authorities to the Secretary of Defense for carrying out the environmental program within the overall framework of the SARA and the Comprehensive Environmental Response Compensation and Liability Act (CERCLA). Dialogue is underway with EPA to establish working relationships under the SARA and the Executive Order.

PROGRAM MANAGEMENT

Overall management of the Defense Environmental Restoration Program is centralized in the Office of the Secretary of Defense, to ensure a consistent approach and adequate allocation of resources. The Deputy Assistant Secretary of Defense for Environment (DASD(E)) provides strong centralized policy direction and oversight of the program. Each service executes environmental restoration activities at its own bases, in accordance with that policy, through normal command channels.

REPORT ON PROGRESS IN IMPLEMENTATION

The following four responses address specific sections at 10 USC 2706:

(1) "A statement for each installation under the jurisdiction of the Secretary of the number of individual facilities at which a hazardous substance has been identified".

Essentially all of the Preliminary Assessment/Site Investigation (PA/SI) studies planned for military installations have been completed.

From these studies 3,526 sites were identified as potential hazardous waste sites. DoD completed remedial actions at 99 sites and another 3,188 are undergoing Remedial Investigation/Feasibility Studies (RI/FS) or are in some stage of remediation.

Table 1, extracted from the Environmental Restoration Status Report, Tab A, summarizes the status of sites in that IRP.

The status of DoD efforts to cleanup properties formerly owned or used in the DoD is summarized in Table 2.

The US Army Corps of Engineers is the DoD Executive Agent for implementation of the Environmental Restoration Program at formerly owned or used sites by the Department.

Most of the effort to date has been in the inventory and PA/SI phase of the program. At present there are approximately 7,000 identified potential environmental restoration sites on properties formerly owned or used by the Department which require investigation as to the degree of DoD responsibility, if any.

In FY 1986, DoD completed preliminary assessment/site investigations at 1,163 such sites, and have 491 currently underway. In FY 1987, 500 more are planned.

DoD has completed or has ongoing projects at 125 sites in FY 1986 and expect to begin work on approximately 50 more in FY 1987. Of these, 112 are for removal of unsafe buildings, structures or debris, 11 are for removals of hazardous or toxic substances, and 2 projects are for comprehensive RI/FS. There are Unexploded Ordnance clearance work ongoing at two sites. DoD is also participating with EPA in ongoing RI/FS at 4 sites listed on the National Priorities List (NPL).

(2) "The status of response actions contemplated or undertaken at each such facility".

The information provided above answer this request.

In addition, a summary of the specific installation restoration tasks accomplished in FY 1986 is provided in Tab B. This information is summarized in Table 3.

Installation Restoration Program work scheduled for FY 1987 is presented in the FY 1987 Defense Priorities List attached at Tab C. Table 4, extracted from that document, summarizes the FY 1987 planned workload.

Central to the IRP's effectiveness is the Department's ability to set priorities, select remedies and establish schedules at sites, taking into full consideration the level of contamination and the impact on surrounding communities. Since each site presents a different risk to people and the environment, and since cleanup is costly, the Department has established a priority system to assure its sites are addressed on a "worst-first" basis. This enables DoD to use scarce funds in the most beneficial way.

The Hazard Ranking System (HRS) identifies high-risk sites for further study. DoD utilizes the HRS and other NCP requirements. To allocate constrained resources we must develop a method for setting cleanup priorities and schedules that rationally address the worst sites first, nationally. Such a prioritizing system must be scientifically and legally defensible. DoD is working on the technical aspects of priority ranking, including field tests of promising systems. DoD is also working with the EPA and will include the states and public in review and evaluation of the specific prioritizing methodology. The present system is an interim

measure which has been used in FY 1987 and comprises three priority tiers:

A - NPL sites or imminent or substantial danger to people and the environment.

B - not as high a potential risk, or a Hazard Assessment and Ranking Method (HARM) score of 55 or above (HARM was developed and used by the Air Force), or equivalent.

C - All others.

(3) "The specific cost estimates and budgetary proposals involving response actions contemplated or undertaken at each such facilities".

In FY 1984 the Congress consolidated and expanded DoD programs for management and cleanup of hazardous waste as a separate appropriation under the Defense Appropriations Act. This allowed DoD to accelerate work and add the research and formerly owned-or-used sites components to the program. Subsequently a centralized transfer account entitled the Defense Environmental Restoration Account (DERA) was established, and the Department was given the authority to transfer funds from this account to the various Defense appropriations to finance environmental restoration efforts. Amounts appropriated to the transfer account remain available until transferred - i.e., they are "no-year" funds. This allows the necessary flexibility to adjust cleanup contracts to meet regulatory review and approval schedules and also to be responsive to emergent requirements.

Obligation rates under the DERA have been excellent. DoD has already responded to the Congressional request for obligation rate data in FY 1986 and are pleased to report essentially 100% obligation of available DERA funds in FY 1986. We did, in fact, carry over \$1.3 million of the \$360.5 million provided in FY 1986 due to last minute contractual cost changes.

The total funding of the DERA from FY 1984 through FY 1989 is shown in Figure 1. The data represented for FY 1984 through FY 1986 represent actual amounts, after Gramm-Rudman-Hollings reduction of \$18 million in FY 1986 and a net reduction of \$10 million in FY 1987. The FY 1987 data represent our current program which includes the \$1.3 million carry-over from FY 1986. The FY 1988 and FY 1989 data are the amounts in the President's budget.

Since FY 1984 DoD has completed most of the PA/SI work, has accomplished a number of immediate response removal actions, and moved progressively into the RI/FS and beyond phases of the program. RI/FS are technically complex studies and must be done with extensive coordination with all affected technical and regulatory agencies, national state, and local. Public involvement, including comments on studies are also taken into consideration. As a result, these studies can be costly and take a long time (EPA estimates a minimum of 18 months, but can easily be twice as long for a complex site). Estimates for remedial actions on the order of \$50 million are not uncommon. Consequently, the outyear budget estimates are fraught with uncertainties, not only with respect to the amounts which will be needed, but also as to when the funds will be needed.

The FY 1988 and FY 1989 budget amounts represent the minimum levels necessary to comply with schedules legislatively mandated by the SARA and for those high priority sites for which enough data is available to make reasonably firm estimates and which, if not done, will lead to violations of legally binding requirements.

(4) "A report on progress on conducting response actions at facilities other than facilities on the National Priorities List".

Information presented above includes both sites proposed by National Priorities List (NPL) and non-NPL sites.

NPL sites are DoD's highest priority. Attached at Tab D is a report on a current status of DoD facilities proposed for the NPL.

ENVIRONMENTAL RESTORATION RESEARCH, DEVELOPMENT & DEMONSTRATION

The Defense Environmental Restoration Program also has provisions for research, development and demonstration with respect to hazardous waste. Included are: means of reducing the quantities of hazardous waste generated by current operations; identifying and evaluating more cost-effective technologies for cleanup of hazardous substances; collecting toxicological data and developing methodology on risk of exposure to hazardous wastes generated by the DoD; testing, evaluation, and field demonstration of any innovative

technologies which may contribute to control, containment, or treatment of contamination resulting from hazardous substances.

In FY 1987 the DERA will support approximately \$11 million of R&D work for cleanup technology, hazardous waste minimization and toxicological information. Most of the effort will be for demonstration projects. The work is coordinated with EPA and Department of Energy. A report detailing the efforts of the working group is attached at Tab E.

CONCLUSION

DoD is proud of the progress made in its environmental programs, and the Environmental Restoration Program in particular.

In FY 1986 the Congress provided \$360 million for Environmental Restoration. These funds were used to expand and accelerate studies and remedial actions at more than 1,900 sites on DoD installations. In addition, DoD has completed or has underway investigations at more than 1,500 formerly owned or used sites and remedial projects at 125 such sites.

For FY 1987 the Congress has appropriated \$376 million to continue the momentum. The top priority continues to be the cleanup of toxic and hazardous waste sites.

DoD is committed to carrying out its program consistent with the intent of Congress and in full cooperation with the EPA and state agencies, with full public participation, and in full compliance with environmental laws and regulations.

TABLE 1
SUMMARY OF
DoD INSTALLATION RESTORATION
PROGRAM SITES
AS OF SEPTEMBER 30, 1986

<u>Service/Agency</u>	<u>Type of Study or Action</u>					
	<u>PA/SI R2</u>	<u>T</u>	<u>RI/FS LTM</u>	<u>R4</u>	<u>RD/RA</u>	
					<u>T</u>	<u>C</u>
Air Force	1862	1642	42	216	130	43
Army	839	800	192	149	251	43
Defense Logistics Agency	54	53	0	10	11	3
Navy	<u>771</u>	<u>693</u>	<u>0</u>	<u>87</u>	<u>15</u>	<u>10</u>
GRAND TOTAL	3526	3188	234	462	407	99

EXPLANATORY NOTES

- R2- Number of sites evaluated in PA/SI step which exhibit characteristics indicating the potential for contamination and were therefore recommended for remedial investigations and feasibility studies.
- T- Total sites that have undergone an RI/FS or RD/RA.
- LTM- Number of sites evaluated in RI/FS step and found to contain contaminants but not presenting a hazard to people or the environment. These sites have been recommended for long-term monitoring or no action.
- R4- Number of sites evaluated in RI/FS step and considered to present a hazard significant enough to warrant response action in accordance with the Comprehensive Environmental Response, Compensation and Liability Act, as amended. These sites have been recommended for cleanup actions.
- C- Total sites which have been completed.

TABLE 2
SUMMARY OF
DoD FORMERLY OWNED OR USED SITES
AS OF SEPTEMBER 30, 1986

	<u>FY86 ACTUAL</u>	<u>FY87 ESTIMATE</u>	<u>AVG COST</u>
Sites Identified (Cum)	6,806	7,500	
PA/SI Completed (Cum)	1,163	1,700	\$25 K
Ongoing	491	500	
Projects Completed or Ongoing			
BD/DR	112	170	\$110 K
Haz/Tox Removal	11	20	\$170 K
RI/FS (DoD) *	2	4	\$2.5 M
RI/FS (Other Agency) **	4	9	
RD/RA	0	2	
UXO ***	2	2	

* - Tierra Santa, CA; Hastings, NB.

** - EPA lead, NPL sites - WV Ord Wks Morgantown, WV; Eau Claire, WI;
Phoenix Litchfield, AZ; Marathon Battery, NY.

*** - Tierra Santa, CA; Burma Rd., Kodiak, AK.

TABLE 3
 Summary of Hazardous Waste
 Remediation, FY 1986 IRP

	# of Installations	# of Sites	# of Projects*			TOTAL
			PA/SI	RI/FS	RD/RA	
Army	45	146	—	119	50	169
Navy	55	465	—	465	—	465
Air Force	<u>125</u>	1299	—	1218	<u>242</u>	1460
DLA	<u>9</u>	<u>10</u>	<u>—</u>	<u>9</u>	<u>1</u>	<u>10</u>
<u>TOTAL</u>	234	1920	-0-	1811	293	2104

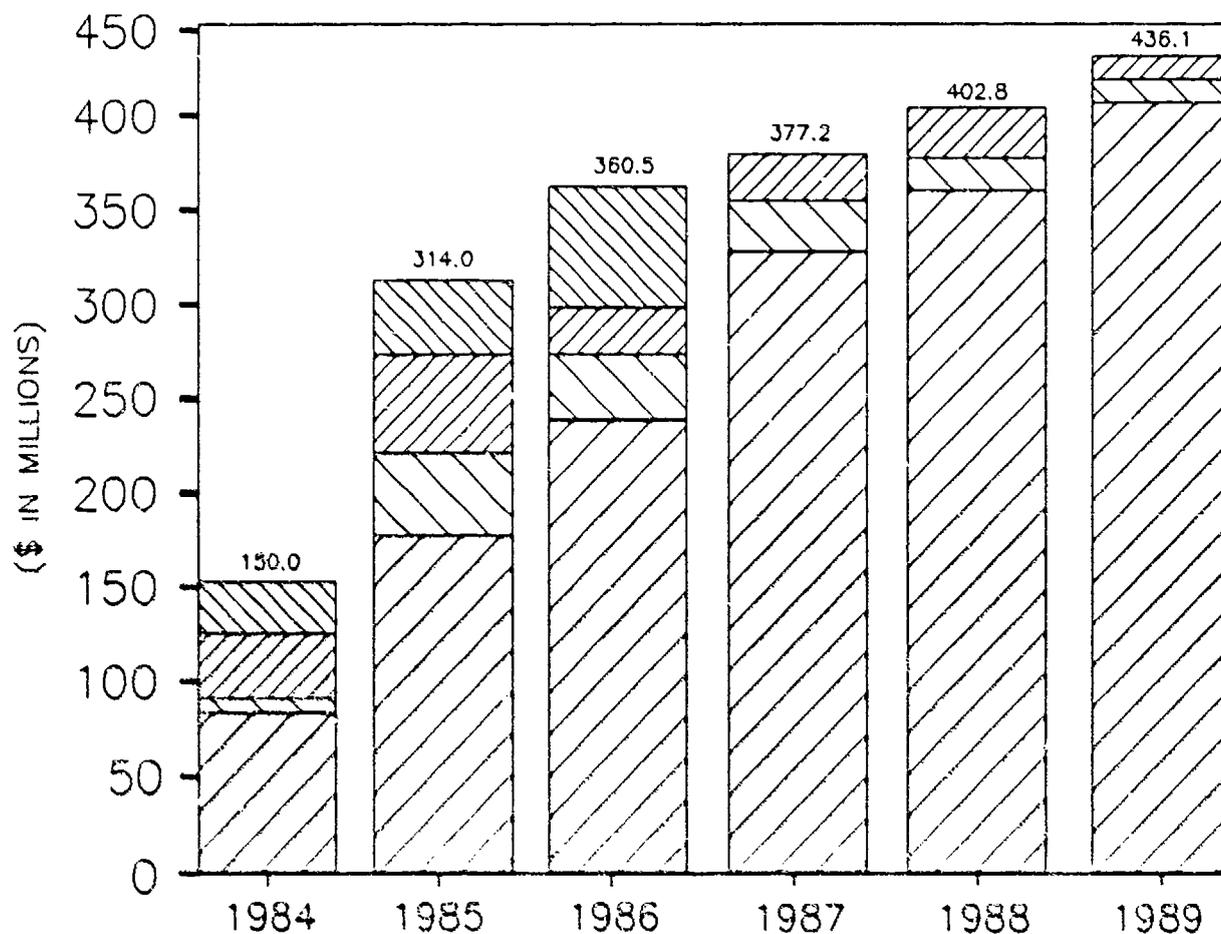
*Note: Project counts do not equal site counts as some sites have multiple projects funded in FY 1986.

TABLE 4
 Summary of Hazardous Waste Sites
 FY 1987 IRP
 Defense Priorities List

Service/Agency	Priorities			Total
	<u>A</u>	<u>B</u>	<u>C</u>	
ARMY	96	33	146	275
Navy	126	438	165	729
AIR FORCE	138	465	313	916
DEFENSE LOGISTICS AGENCY	12	0	1	13
TOTAL SITES	372	936	625	1933

FIGURE 1

ENVIRONMENTAL RESTORATION PROGRAM FUNDING



FISCAL YEAR

IRP OHW BD/OR HW DISP

IRP - INSTALLATION RESTORATION PROGRAM
OHW - OTHER HAZARDOUS WASTE
BD/OR - BUILDING DEMOLITION/DEBRIS REMOVAL
HW DISP - HAZARDOUS WASTE DISPOSAL

TAB A

Status of the Department of Defense Installation
Restoration Program for Fiscal Year 1986

STATUS OF THE
DEPARTMENT OF DEFENSE
**INSTALLATION
RESTORATION
PROGRAM**
FOR
FISCAL YEAR 1986



OFFICE OF THE DEPUTY ASSISTANT SECRETARY OF DEFENSE
(ENVIRONMENT)

WASHINGTON, D.C. 20301-8000

JANUARY 1987

TABLE OF CONTENTS

Title	Page
Status Report, DoD Installation Restoration Program	i
Table I, Cumulative Summary of DoD IRP Sites ...	iii
Appendix A, Table II, DoD IRP Status Report Master Status Listing	1
Appendix B, Table III, Status Report Summary Table	29
Appendix C, List of Acronyms and Abbreviations.....	33

STATUS REPORT

DOD INSTALLATION RESTORATION PROGRAM

INTRODUCTION

The Installation Restoration Program (IRP) is the Department of Defense program for cleanup of contamination at toxic and hazardous waste sites.

The IRP is centrally managed at the Office of the Secretary of Defense and is carried out by the military services and defense agencies. The Deputy Assistant Secretary of Defense for Environment provides overall policy direction and oversight for the program. Each service accomplishes installation restoration activities at its own bases through command channels. This status report provides "a snap shot" of the status of the IRP at DoD installations as of September 30, 1986.

BACKGROUND

The Department of Defense, like private industry, conducts a number of industrial processing and manufacturing operations which utilize large amounts of industrial chemicals. Although in the past wastes from these operations were disposed of by the commonly accepted practices of the times, we have found that such practices may have resulted in environmental contamination and risks to public health and the environment. In response to that knowledge, programs were developed in the late 1970's by active military installations.

With the passage of the Defense Appropriations Act of 1984, the DoD's program was expanded and broadened to include removal of structures or debris which are unsafe or constitute a health hazard. Also, the overall management of the program was centralized in the Environmental Policy Office of the Secretary of Defense to ensure a consistent approach and adequate allocation of resources.

The Superfund Amendments and Reauthorization Act of 1986 (SARA) provides the continuing authority for the Secretary of Defense to carry out the Environmental Restoration Program. Executive Order 12580 on Superfund Implementation, signed by President Reagan on January 23, 1987, delegates certain authorities to the Secretary of Defense for carrying out its environmental restoration program within the overall framework of the SARA and Comprehensive Environmental Response Compensation and Liability Act (CERCLA).

The Department of Defense is subject to all environmental laws and regulations. Although we are not eligible for Superfund funding, our program is funded in the annual Defense Appropriations Act and we are required to meet all the requirements of CERCLA and SARA. We consult with the EPA and state agencies every step of the way from site identification through final action to make sure that our responses are both technically sound and in the public interest.

PROGRAM

Like the EPA's Superfund program, the DoD IRP follows the National Contingency Plan. Removal Actions for imminent threats are, of course, carried out immediately upon discovery. The cleanup of sites proceeds in the following major steps:

- Preliminary Assessment/Site Investigation (PA/SI) - the PA includes collection and review of available information (installation records, employee interviews, technical data, reports, etc). The SI comprises a physical inspection of the identified site, and in some cases, limited sampling information. This step was formerly called Phase I, Installation Assessment, under the DoD IRP

- Remedial Investigation/Feasibility Study (RI/FS) - These steps may be conducted concurrently. The RI consists of sampling and field studies whose goals are to determine the nature and extent of contamination at a site and the direction and rate of migration, if applicable. The FS is used to develop and analyze various remedial alternatives and recommend appropriate actions. The RI part of this step was formerly called Phase II - Confirmation Study under the DoD IRP. These phase II studies also included the FS step, except by the Air Force who included the FS in their Phase IV work.
- Remedial Design/Remedial Action (RD/RA) - This includes the engineering design, construction and operation of the cleanup alternative selected on the basis of providing the most protection to human health and the environment as well as cleanup, containment, or other structures to prevent migration of contaminants; decontamination/treatment processes to remove or detoxify contaminants; and long-term monitoring systems. This step was formerly called Phase IV, Remedial Action, under the DoD IRP.

Central to the IRP is the DoD's ability to set priorities, select remedies and establish schedules at sites that take into full consideration the level of contamination and the impact on surrounding communities. Since each site presents a different risk to health and the environment and cleanup is costly, DoD is developing a comprehensive priority ranking system in concert with the EPA, other federal agencies, states and the public to assure that scarce funds are used in the most beneficial way and that sites are properly addressed on a "worst-first" basis.

PROGRESS

There has been an increased emphasis and visibility on the IRP since 1984. Sites which have been addressed in the PA/SI (Phase I) and RI/FS (Phase II) are now leading to the identification of RD/RA work in 1987 and beyond, and it is clear that the bulk of the work still lies ahead. In FY 1987, DoD has allocated \$327 million to the services to carry out installation restoration at their bases. We estimate the total cost of DoD installation restoration work at \$5-10 billion over the next 10 years for 400-800 sites. The uncertainty of this figure is because we still have many studies to complete.

Progress in the IRP can be summarized as follows:

- Essentially all of the PA/SI (Phase I) studies planned for military installations have been completed. The DoD has approximately 874 installations in the 50 states. Of these, 529 have been included in the program and have completed preliminary studies. We are re-looking at several that were completed prior to the passage of SARA to see if they merit re-evaluation on the basis of today's more stringent requirements.
- From these studies more than 3,500 sites were identified as potential hazardous waste sites. Of these, 3,188 have underway or completed RI/FS (Phase II) or RD/RA (Phase IV). 462 sites have been evaluated in the RI/FS (Phase II) step and considered to present a hazard significant enough to warrant a remedial action in accordance with the National Contingency Plan and have been recommended for RD/RA. Cleanup work has been completed at 99 sites.

Table I summarizes progress at active and inactive installations as of September 30, 1986. Following the summary is a complete listing of the program status, installation-by-installation. In general, the installations listed are the same as those which appeared in last year's report. However, the list has been updated and changed to be consistent with NCP terminology.

TABLE I
CUMULATIVE SUMMARY OF
DEPARTMENT OF DEFENSE INSTALLATION RESTORATION PROGRAM SITES
AS OF SEPTEMBER 30, 1986

Service/Agency	Type of Study or Action ¹					
	PA/SI R2	RI/FS			RD/RA	
		T	LTM	R4	T	C
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EXPLANATORY NOTES

- R2- Number of Sites evaluated in PA/SI step which exhibit characteristics indicating the potential for contamination and were therefore recommended for remedial investigations and feasibility studies.
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- LTM- Number of sites evaluated in RI/FS step and found to contain contaminants but not presenting a hazard to people or the environment. These sites have been recommended for long-term monitoring or no action.
- R4- Number of sites evaluated in RI/FS step and considered to present a hazard significant enough to warrant response action in accordance with the Comprehensive Environmental Response, Compensation and Liability Act, as amended. These sites have been recommended for cleanup actions.
- C- Total sites which have been completed.

¹ See Definitions page for further explanation of terms.

APPENDIX A

DEPARTMENT OF DEFENSE
 INSTALLATION RESTORATION PROGRAM STATUS REPORT
 MASTER STATUS LISTING AS OF 30 SEPTEMBER 1986

PA/SI R2	RI/FS LTM R4	RD/RA T C
-------------	-----------------	--------------

ALASKA

AIR FORCE

ALASKAN DEWLINE	22				
ANCHORAGE ANG					
ANIAK				1	1
ANVIL MOUNTAIN				1	
BARTER ISLAND	5	5	5		
BEAR CREEK				1	1
BETHEL				1	
BIG MOUNTAIN				1	1
BOSWELL BAY				1	
CAMPION LRRS	7	7	7	3	3
CANYON CREEK				1	
CAPE LISBURNE	6			1	
CAPE NEWENHAM	6		6		
CAPE ROMANZOF LRRS	11			1	
CAPE SARICHEF					
CLEAR AFB	7	5			
COLD BAY LRRS	2	4		1	
DRIFTWOOD BAY				1	1
DUNCAN CANAL			1	1	
EIELSON AFB	17	35	10	4	4
ELMENDORF AFB	13	31	10		
FLAXMAN ISLAND	1	1	1	1	
FORT YUKON LRRS	5	6	1	1	1
GALENA AIRPORT	6	6	1	1	
GOLD KING CREEK				1	
GRANITE MOUNTAIN			1	1	1
HOGNAH				1	
INDIAN MOUNTAIN LRRS	11	11	6		
KALAKARET CREEK				1	
KING SALMON AFS	17				
KOTZEBUE	4			1	
LONELY	3	3	3	1	
MURPHY DOME LRRS	7	7		1	
NIKOLSKI				1	
NORTH RIVER				1	1
OCEAN CAPE			1	1	
OLIKTOK	1	1	1	1	
PEDRO DOME					
POINT BARROW					
POINT LAY	3	3	3	3	3
PORT HEIDEN			1	1	1
PORT MOLLER				1	
SHEMYA AFB	9		1	1	1

DEPARTMENT OF DEFENSE
 INSTALLATION RESTORATION PROGRAM STATUS REPORT
 MASTER STATUS LISTING AS OF 30 SEPTEMBER 1986

	PA/SI		RI/FS		RD/RA	
	R2	T	LTM	R4	T	C
SMUGGLERS COVE					1	
SOLDOTNA						
SPARREVOHN LRRS	8	8		1	1	
TATALINA LRRS	11			2	2	2
TIN CITY LRRS	8				1	
UNALAKOLEET						
WAINWRIGHT						
YAKATAGE					1	1
YAKUTAT					1	1
ARMY						
CAMP CARROLL						
FORT GREELY						
FORT RICHARDSON						
FORT WAINWRIGHT		3				
GERSTLE RIVER TEST SITE						
NAVY						
NARL POINT BARROW						
NAS ADAK						
<hr/>						
ALASKA STATE TOTALS	168	158	0	62	46	23
ALABAMA						
AIR FORCE						
BIRMINGHAM ANG	10	1				
DONNELLY ANG	10	5				
GUNTER						
MAXWELL AFB	10	10				
ARMY						
ALABAMA AAP	54	48		26	26	2
ANNISTON AD	1	1		2	2	2
ARMY PHOSPHATE DEV WORKS						
FORT MCCLELLAN	3	9			9	
FORT RUCKER						
MISSILE CMD, REDSTONE ARSENAL	46	46	42	42	42	4
<hr/>						
ALABAMA STATE TOTALS	134	120	42	70	79	8

DEPARTMENT OF DEFENSE
 INSTALLATION RESTORATION PROGRAM STATUS REPORT
 MASTER STATUS LISTING AS OF 30 SEPTEMBER 1986

ARKANSAS

PA/SI R2	RI/FS LTM	RA	RD/RA T	C
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AIR FORCE

BLYTHEVILLE	9				
FORT SMITH ANG					
LITTLE ROCK	24	15			

ARMY

FORT CHAFFEE						
PINE BLUFF ARSENAL	37	27	7	5	10	3

ARKANSAS STATE TOTALS

70	42	7	5	10	3
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ARIZONA

AIR FORCE

AFP NO.44	11	7	3	2	2
DAVIS MONTHAN AFB	10	12			
LUKE AFB	1	5	3	2	2
PHOENIX ANG					
TUSCON ANG					
WILLIAMS AFB	6	9		1	1

ARMY

FORT HUACHUCA					
NAVAJO ADA	8	13	6		
PAPAGO MILITARY RESERVATION					
YUMA PROVING GROUND					

NAVY

MCAS YUMA	2	2			
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ARIZONA STATE TOTALS

38	48	12	5	5	0
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CALIFORNIA

AIR FORCE

AFP NO.19, SAN DIEGO						
AFP NO.42, PALMDALE	15	25				
AFP NO.70, FOLSOM						
BEALE AFB	6	19		2	2	
CASTLE AFB	16	21		7		
EDWARDS AFB	7	24	11	4	4	7
FORT MacARTHUR						
FRESNO ANG						
GEORGE	13	21		1	1	

DEPARTMENT OF DEFENSE
 INSTALLATION RESTORATION PROGRAM STATUS REPORT
 MASTER STATUS LISTING AS OF 30 SEPTEMBER 1986

	PA/SI R2	T	RI/FS LTM	R1	RD/RA T	C
LOS ANGELES	2	2				
MARCH	14	33				
MATHER AFB	9	20	1	1	1	
MCCLELLAN	30	50		27	2	2
NORTON AFB	12	16		1	1	
SUNNYVALE						
TRAVIS	7	18	1	2	2	
VANDENBERG AFB	17	33		1	1	

ARMY

CAMP ROBERTS						
EAST FORT BAKER						
FORT HUNTER LIGGETT						
FORT IRWIN						
FORT MacARTHUR						
FORT ORD						
HAMILTON ARMY AIR FIELD	4	4				
OAKLAND ARMY BASE						
PARKS RESERVE FORCES TRAINING AREA						
PRESIDIO OF MONTEREY						
PRESIDIO OF SAN FRANCISCO						
RIO VISTA RESERVE TRAINING ACTIVITY						
RIVERBANK AAP	10	10				
SACRAMENTO AD	13	13		3	3	
SHARPE ARMY DEPOT	11	11				
SIERRA AD						

DEFENSE LOGISTICS AGENCY

DDTC TRACY	2	2				
DFSP ESTERO BAY						
DFSP NORWALK	1	1			1	
DFSP OZOL	1	1		1	1	
DFSP SAN PEDRO	8	8				

NAVY

CBC PORT HUENEME		8				
MCAGCC 29 PALMS						
MCAS EL. TORO						
MCAS TUSTIN	7	7		1	1	
MCB CAMP PENDLETON	5					
MCLB BARSTOW	4	4				
NAB CORONADO		2				
NAS ALAMEDA	7	7				
NAS LEMOORE	19	11				
NAS MIRAMAR	5	5		1	1	1
NAS MOFFETT FIELD	18	10				
NAS NORTH ISLAND	4	4				

DEPARTMENT OF DEFENSE
 INSTALLATION RESTORATION PROGRAM STATUS REPORT
 MASTER STATUS LISTING AS OF 30 SEPTEMBER 1986

PA/SI R2	RI/FS LTM R4	RD/RA T C
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NIROP SUNNYVALE					
NOSC SAN DIEGO					
NS SAN DIEGO					
NS TREASURE ISLAND					
NSB SAN DIEGO					
NSY HUNTER'S POINT	6	7			
NSY LONG BEACH				1	1
NSY MARE ISLAND	6	7			
NTC SAN DIEGO					
NWC CHINA LAKE	14	16		1	1
NWS CONCORD	13	13			
NWS SEAL BEACH	9	9			
PMTC POINT MUGU	10	10			

CALIFORNIA STATE TOTALS	325	452	13	53	23	11
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COLORADO

AIR FORCE

AFP PJKS, LITTLETON	6	16			
BUCKLEY ANG	6	7		1	1
LOWRY AFB	3	14		1	1
PETERSON	5				
USAF ACADEMY	9				

ARMY

FITZSIMMONS ARMY MED CENTER					
FORT CARSON					
PUEBLO DEPOT ACTIVITY					
ROCKY MOUNTAIN ARSENAL	224	71		5	8

COLORADO STATE TOTALS	253	108	0	7	10	3
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CONNECTICUT

AIR FORCE

BRADLEY ANG

ARMY

STRATFORD ARMY ENGINE PLANT

NAVY

NSB NEW LONDON	4	4			
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CONNECTICUT STATE TOTALS	4	4	0	0	0	0
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DEPARTMENT OF DEFENSE
 INSTALLATION RESTORATION PROGRAM STATUS REPORT
 MASTER STATUS LISTING AS OF 30 SEPTEMBER 1986

PA/SI
R2

RI/FS
T LTM R4

RD/RA
T C

DISTRICT OF COLUMBIA

AIR FORCE

BOLLING AFB 3

ARMY

FORT MCNAIR
 WALTER REED ARMY MEDICAL CTR

NAVY

NRL CHESAPEAKE BEACH

DISTRICT OF COLUMBIA STATE TOTALS 3 0 0 0 0 0

DELAWARE

AIR FORCE

DOVER AFB 7 12 2 3 3
 GREATER WILMINGTON ANG 1

ARMY

PEA PATCH ISLAND

DELAWARE STATE TOTALS 7 13 2 3 3 0

FLORIDA

AIR FORCE

CAPE CANAVERAL 17 11
 EGLIN AFB 52 40 6
 HOMESTEAD AFB 18 10
 JACKSONVILLE ANG 19 16 1 1 1
 MACDILL AFB 19 18 1 1
 PATRICK AFS 24 16
 TYNDALL AFB 14 12

ARMY

ARRCOM ORLANDO FACILITY

DEFENSE LOGISTICS AGENCY

DFSP LYNN HAVEN 2 2
 DFSP TAMPA

DEPARTMENT OF DEFENSE
 INSTALLATION RESTORATION PROGRAM STATUS REPORT
 MASTER STATUS LISTING AS OF 30 SEPTEMBER 1986



NAVY

NAS CECIL FIELD	10	9			
NAS JACKSONVILLE	21	21	7	1	1
NAS KEY WEST	16	15			
NAS PENSACOLA	27	27			
NAS WHITING FIELD	15	15			
NCSC PANAMA CITY	7	7			
NS MAYPORT	10	8			
NTC ORLANDO	5	5			

FLORIDA STATE TOTALS	276	232	7	9	3	1
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GEORGIA

AIR FORCE

AFP NO.6 MARIETTA	20	12			
DOBBINS	13	6			
MOODY AFB	14	6	1		
ROBINS AFB	30	24	2		
SAVANNAH ANG					

ARMY

FORT BENNING					
FORT GILLEM	22	22			22
FORT GORDON					
FORT McPHERSON					
FORT STEWART					
HUNTER ARMY AIRFIELD					

NAVY

MCLB ALBANY	6	8			
NSB KINGS BAY					

GEORGIA STATE TOTALS	105	78	0	3	22	0
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GUAM

AIR FORCE

ANDERSEN AFB		11			
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NAVY

NAS AGANA	5	4			
PWC GUAM	2	1			

GUAM STATE TOTALS	7	16	0	0	0	0
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DEPARTMENT OF DEFENSE
 INSTALLATION RESTORATION PROGRAM STATUS REPORT
 MASTER STATUS LISTING AS OF 30 SEPTEMBER 1986

PA/SI
R2

RI/FS
T LTM R4

RD/RA
T C

HAWAII

AIR FORCE

BELLOWS	1			
HICKAM AFB	6	17	4	4
HICKAM POL	11	26		
KAENA PT STATION				
KOKEE				
PUNAMANO				
WHEELER AFB	7	7		

ARMY

FORT KAMEHAMEHA
 FORT SHAFTER
 KAPALAMA MIL RES
 KILAUEA MIL RES
 MAKUA MIL RES
 POHAKULA TRAINING AREA
 SCHOFIELD BARRACKS
 TRIPLER ARMY MEDICAL CENTER

NAVY

MCAS KANEOHE	1	1
NAS BARBERS POINT	3	3
NAVCAMS EASTPAC		
NAVMAG LUALUALEI		
NSY PEARL HARBOR	3	3

HAWAII STATE TOTALS	32	57	0	4	4	0
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IOWA

AIR FORCE

DES MOINES ANG	2	6
SIoux CITY ANG		

ARMY

IOWA AAP	9	9	2
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IOWA STATE TOTALS	11	15	0	2	0	0
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DEPARTMENT OF DEFENSE
 INSTALLATION RESTORATION PROGRAM STATUS REPORT
 MASTER STATUS LISTING AS OF 30 SEPTEMBER 1986

PA/SI R2	R/V/S T LTM RA	RD/RA T C
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IDAHO

AIR FORCE

BOISE	6					
GOWEN FIELD		4				
MOUNTAIN HOME AFB	6	5		4	4	
IDAHO STATE TOTALS	12	9	0	4	4	0

ILLINOIS

AIR FORCE

CAPITAL ANG						
CHANUTE AFB	26	15			1	
GREATER PEORIA N G						
O'HARE AIR RESERVE	9	9				
SCOTT	12					

ARMY

FORT SHERIDAN						
JOLIET AAP	17	17				
ROCK ISLAND ARSENAL						
SAVANNA ADA	31	32	10		10	
ST. LOUIS SUPPORT CENTER	8	8	1			

NAVY

NTC GREAT LAKES

ILLINOIS STATE TOTALS	103	81	11	0	11	0
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INDIANA

AIR FORCE

FT.WAYNE ANG	10	5				
GRISSOM	7					
HULMAN FIELD	10	1				

ARMY

CRANE ARMY AMMUNITION ACTIVITY						
FORT BENJAMIN HARRISON						
INDIANA AAP	11	11	6			
JEFFERSON PROVING						
GROUND, MADISON						
NEWPORT AAP						

DEPARTMENT OF DEFENSE
 INSTALLATION RESTORATION PROGRAM STATUS REPORT
 MASTER STATUS LISTING AS OF 30 SEPTEMBER 1986

PA/SI
RZ

RI/FS
LTM R4

RO/RA
T C

NAVY

NWSC CRANE	14	14		1	1	
INDIANA STATE TOTALS	52	31	6	1	1	0

KANSAS

AIR FORCE

FORBES FIELD MCCONNELL	12					
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ARMY

FORT LEAVENWORTH FORT RILEY KANSAS AAP SUNFLOWER AAP	12	1	6			
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DEFENSE LOGISTICS AGENCY

DIPEF ATCHISON

KANSAS STATE TOTALS	24	7	0	0	0	0
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KENTUCKY

AIR FORCE

STANDIFORD FIELD ANG

ARMY

BLUE GRASS ADA FORT CAMPBELL FORT KNOX LEXINGTON ADA		7	2			
		1				
		4	2			

NAVY

NOS LOUISVILLE

KENTUCKY STATE TOTALS	0	12	4	0	0	0
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LOUISIANA

AIR FORCE

BARKSDALE ENGLAND AFB	21					
	26	7		7		

DEPARTMENT OF DEFENSE
 INSTALLATION RESTORATION PROGRAM STATUS REPORT
 MASTER STATUS LISTING AS OF 30 SEPTEMBER 1986

PA/SI R2	R/FS LTM R4	RD/RA 11 C
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ARMY

FORT POLK LOUISIANA AAP PEARSON RIDGE	15	15	8	2	2	2
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NAVY

NSA NEW ORLEANS	12	12				
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LOUISIANA STATE TOTALS	74	34	8	9	2	2
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MASSACHUSETTS

AIR FORCE

AFP NO.28, EVERETT	2					
AFP NO.29, LYNN	2					
BARNES ANG						
HANSCOM AFB	19	13		1	5	
OTIS ANG	16	43		23	13	9
WESTOVER	11	10				

ARMY

AMMRC FORT DEVENS NATICK R&D COMMAND	7	7			7	
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NAVY

NIROP BEDFORD						
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MASSACHUSETTS STATE TOTALS	57	73	0	24	25	9
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MARYLAND

AIR FORCE

ANDREWS AFB GLENN L.MARTIN ANG	24	15				
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ARMY

ABERDEEN PRVG GRND, ABERDEEN		7				
ABERDEEN PRVG GRND, EDGEWOOD	18	18	10		8	
BLOSSOM POINT FIELD TEST ACTIVITY						
FORT DETRICK						
FORT MEADE	2					
GAITHERSBURG RES FACILITY						
HARRY DIAMOND LABORATORY						

DEPARTMENT OF DEFENSE
 INSTALLATION RESTORATION PROGRAM STATUS REPORT
 MASTER STATUS LISTING AS OF 30 SEPTEMBER 1986

	PA/SI R2	RI/FS LTM R4	RD/RA T C		
PHOENIX MILITARY RES	1	1	1		
NAVY					
NAS PATUXENT RIVER	19	16	2		
NIROP CUMBERLAND	10	6	6		
NOS INDIAN HEAD	3	3	1		
NSWC WHITE OAK	7	7	7		
<hr/>					
MARYLAND STATE TOTALS	84	73	11	16	8 0
MAINE					
AIR FORCE					
BANGOR ANG					
LORING	20	18			
DEFENSE LOGISTICS AGENCY					
DFSP CASCO BAY	3	1	1	1	1
DFSP SEARSPORT					
NAVY					
NAS BRUNSWICK	7	7	7		
<hr/>					
MAINE STATE TOTALS	30	26	0	8	1 1
MICHIGAN					
AIR FORCE					
BATTLE CREEK ANG					
K.I.SAWYER	15				
PHELPS COLLINS ANG	16	7	2	2	
SELFRIE ANG	7	7			
WURTSMITH	11	4	5		
ARMY					
DETROIT ARSENAL	5	5	1	1	1
KEWEENAW FIELD STATION					
MICHIGAN ARMY MISSILE PLANT	4	5	1		
PONTIAC STORAGE FACILITY					
TANK-AUTOMOTIVE COMMAND					
SUPPORT ACT					
<hr/>					
MICHIGAN STATE TOTALS	58	28	2	8	3 0

DEPARTMENT OF DEFENSE
 INSTALLATION RESTORATION PROGRAM STATUS REPORT
 MASTER STATUS LISTING AS OF 30 SEPTEMBER 1986

PA/SI
R2

RI/FS
T LTM R4

RD/RA
T C

MINNESOTA

AIR FORCE

DULUTH IAP	15	11			
MINN ST.PAUL IAP	12	5			

ARMY

TWIN CITIES AAP	1	15	5	5	5
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NAVY

NIROP MINNEAPOLIS	3	3		1	1	1
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MINNESOTA STATE TOTALS	31	34	5	6	6	1
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MISSOURI

AIR FORCE

LAMBERT ANG					
RICHARDS GEBEUR	2	13			
ROSECRAUS ANG					
WHITEMAN	6	7			

ARMY

FORT LEONARD WOOD						
GATEWAY AAP	13	18		8	18	18
LAKE CITY AAP	1	2				
ST. LOUIS AAP						
ST. LOUIS ORDNANCE PLANT	18	8	8			
WELDON SPRING TRAINING AREA		1				

MISSOURI STATE TOTALS	40	49	8	8	18	18
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MISSISSIPPI

AIR FORCE

COLUMBUS AFB	13			1	1
GULFPORT/BILOXI ANG					
JACKSON ANG					
KEESLER AFB	17	12			
KEY FIELD ANG		1			

ARMY

MISSISSIPPI AAP

DEPARTMENT OF DEFENSE
 INSTALLATION RESTORATION PROGRAM STATUS REPORT
 MASTER STATUS LISTING AS OF 30 SEPTEMBER 1986

PA/SI R2	RI/FS LTM R4	RD/RA T C
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NAVY

CSC GULFPORT	16	16				
MISSISSIPPI STATE TOTALS	46	29	0	1	1	0

MONTANA

AIR FORCE

GREAT FALLS ANG MALMSTROM	16	20				
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ARMY

FORT MISSOULA

MONTANA STATE TOTALS	16	20	0	0	0	0
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NORTH CAROLINA

AIR FORCE

CHARLOTTE/DOUGLAS ANG POPE	6		2	2		
SEYMOUR-JOHNSON AFB	15	9	5	5		

ARMY

CAMP MacKALL
 FORT BRAGG
 MILITARY OCEAN TERMINAL,SUNNY
 POINT
 TARHEEL ARMY MISSILE PLANT

NAVY

MCAS CHERRY POINT	14	14				
MCB CAMP LEJEUNE	22	22				

NORTH CAROLINA STATE TOTALS	57	45	0	7	7	0
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NORTH DAKOTA

AIR FORCE

GRAND FORKS	3					
HECTOR ANG						
MINOT	3	3				

DEPARTMENT OF DEFENSE
 INSTALLATION RESTORATION PROGRAM STATUS REPORT
 MASTER STATUS LISTING AS OF 30 SEPTEMBER 1986

PA/SI
R2

RI/FS
T LTM R4

RD/RA
T C

AIR FORCE

DFSP GRAND FORKS	1	1				
<hr/>						
NORTH DAKOTA STATE TOTALS	7	4	0	0	0	0

NEBRASKA

AIR FORCE

LINCOLN ANG OFFUTT	16					
ARMY						
CORNHUSKER AAP	77	68		30	30	
<hr/>						
NEBRASKA STATE TOTALS	93	68	0	30	30	0

NEW HAMPSHIRE

AIR FORCE

NEW BOSTON PEASE	3 28	19		1	1	
DEFENSE LOGISTICS AGENCY						
DFSP NEWINGTON	1	1		1	1	
NAVY						
NSY PORTSMOUTH	1	2				
<hr/>						
NEW HAMPSHIRE STATE TOTALS	33	22	0	2	2	0

NEW JERSEY

AIR FORCE

FAA TECHNICAL CENTER MCGUIRE	31	22		1	1	
ARMY						
ERADCOM FLIGHT TEST ACTIVITY FORT DIX FORT MONMOUTH MILITARY OCEAN TERMINAL, BAYONNE PICATINNY ARSENAL	1	15			10	

DEPARTMENT OF DEFENSE
 INSTALLATION RESTORATION PROGRAM STATUS REPORT
 MASTER STATUS LISTING AS OF 30 SEPTEMBER 1986

	PA/SI R2	RI/FS LTM	R4	RD/RA T	C	
ARMY						
NAEC LAKEHURST	46	43		10		
NAPC TRENTON	10	1				
NWS EARLE COLTS NECK	40	11		6		
NEW JERSEY STATE TOTALS	128	92	0	17	11	0
NEW MEXICO						
AIR FORCE						
AFP NO.83, ALBUQUERQUE	5	5				
CANNON AFB	4	4				
HOLLOMAN AFB	1	8				
KIRTLAND AFB	7	6		1	1	
ARMY						
FORT WINGATE ADA	6	6	6			
WHITE SANDS MISSILE RANGE						
NEW MEXICO STATE TOTALS	23	29	6	1	1	0
NEVADA						
AIR FORCE						
NELLIS	5	6				
RENO ANG						
ARMY						
HAWTHORNE AAP	5	5	5			
NAVY						
NAS FALLON						
NEVADA STATE TOTALS	10	11	5	0	0	0
NEW YORK						
AIR FORCE						
AFP NO.38	13	8				
AFP NO.59, JOHNSON CITY	11	3				
GRIFFISS AFB	15	11	2	6		
HANCOCK FIELD	14	9				
NIAGARA FALLS IAP	19	13				

DEPARTMENT OF DEFENSE
 INSTALLATION RESTORATION PROGRAM STATUS REPORT
 MASTER STATUS LISTING AS OF 30 SEPTEMBER 1986

	PA/SI R2	RI/FS T LTM R4	RD/RA T C			
PLATTSBURGH AFB	5			1		
SCHENECTADY ANG						
STEWART ANG	2	3		1	1	
SUFFOLK ANG		6				
ARMY						
FORT DRUM	4	4	2			
FORT HAMILTON						
FORT TOTTEN						
FORT WADSWORTH						
SENECA AD						
STEWART ANNEX						
WATERVLIET ARSENAL						
WEST POINT MIL RES						
DEFENSE LOGISTICS AGENCY						
DFSP VERONA						
NAVY						
NWIRP CALVERTON						
NEW YORK STATE TOTALS	83	57	4	7	2	0
OHIO						
AIR FORCE						
AFP NO.36, EVANDALE	11			3		
AFP NO.85, COLUMBUS	15	6				
MANSFIELD ANG						
NEWARK AFS	12	4				
RICKENBACKER ANG		21				
SPRINGFIELD-BECKLEY ANG						
TOLEDO ANG						
WRIGHT-PATTERSON AFB	34	29		1		
YOUNGSTOWN	4	4				
ARMY						
LIMA ARMY TANK CENTER						
RAVENNA AAP						
DEFENSE LOGISTICS AGENCY						
DCSC COLUMBUS						
DESC DAYTON						
DFSP CINCINNATI						
DFSP ESCANABA						
OHIO STATE TOTALS	76	64	0	4	0	0

DEPARTMENT OF DEFENSE
 INSTALLATION RESTORATION PROGRAM STATUS REPORT
 MASTER STATUS LISTING AS OF 30 SEPTEMBER 1986

PA/SI R2	RI/FS LTM	R4	RD/RA T	C
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OKLAHOMA

AIR FORCE

AFP NO.3, TULSA	13	7	3		
ALTUS AFB	13	9			
TINKER	39	26		2	3
TULSA ANG					
VANCE AFB	16	7			
WILL ROGERS ANG					

ARMY

FORT SILL
 McALESTER AAP
 PERRY

OKLAHOMA STATE TOTALS	81	49	3	2	3	0
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OREGON

AIR FORCE

KINGSLEY FIELD	1	4			
PORTLAND ANG		8			

ARMY

UMATILLA ADA	4	20	20		
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OREGON STATE TOTALS	5	32	20	0	0	0
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PENNSYLVANIA

AIR FORCE

GREATER PITTSBURGH IAP	15	2			
OLMSTED FIELD	6	5			
WILLOW GROVE ARF	17	8			

ARMY

DFAE CARLISLE					
FORT INDIANTOWN GAP					
FRANKFORD ARSENAL	4	4		4	4
HAYS AAP					2
LETTERKENNY ARMY DEPOT	41	26			
NEW CUMBERLAND AD		2			
OAKDALE SUPPORT CENTER					
SCRANTON AAP					

DEPARTMENT OF DEFENSE
 INSTALLATION RESTORATION PROGRAM STATUS REPORT
 MASTER STATUS LISTING AS OF 30 SEPTEMBER 1986

PA/SI R2	RI/FS LTM	R4	RD/RA T	C
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TOBYHANNA AD
 DEFENSE LOGISTICS AGENCY
 DPSC PHILADELPHIA
 NAVY

NADC WARMINSTER	9	9	4
NAS WILLOW GROVE			
NSY PHILADELPHIA	9	5	5
SPCC MECHANICSBURG	4	4	

PENNSYLVANIA STATE TOTALS	105	65	0	13	4	2
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PUERTO RICO

AIR FORCE
 MUNIZ ANG

ARMY

FORT BUCHANAN

NAVY

NS ROOSEVELT ROADS	16	16	16
NSGA SEBANA SECA	2	2	
SUPSHIP SAN JUAN			

PUERTO RICO STATE TOTALS	18	18	0	16	0	0
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RHODE ISLAND

DEFENSE LOGISTICS AGENCY

DFSP MELVILLE

NAVY

CPC DAVISVILLE	3	3			
NETC NEWPORT	9	6	6	3	3

RHODE ISLAND STATE TOTALS	12	9	0	6	3	3
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SOUTH CAROLINA

AIR FORCE

CHARLESTON AFB	38	23	2	2
MCENTIRE ANG	16	8		

DEPARTMENT OF DEFENSE
 INSTALLATION RESTORATION PROGRAM STATUS REPORT
 MASTER STATUS LISTING AS OF 30 SEPTEMBER 1986

	PA/SI R2	RI/FS T LTM R4	RD/RA T C		
MYRTLE BEACH AFB	19	10			
SHAW AFB	13	5			
ARMY					
CHARLESTON ARMY DEPOT					
CLARKS HILL RESERVATION					
FORT JACKSON					
DEFENSE LOGISTICS AGENCY					
DFSP CHARLESTON	1	1	1	1	
DRMO CHARLESTON	1	1	1	1	
NAVY					
MCAS BEAUFORT					
MCRD PARRIS ISLAND					
NSY CHARLESTON	8	8	1	1	1
NWS CHARLESTON	5	7			
<hr/>					
SOUTH CAROLINA STATE TOTALS	101	63	0	5	5 1
SOUTH DAKOTA					
AIR FORCE					
ELLSWORTH AFB	16				
JOE FOSS		2			
<hr/>					
SOUTH DAKOTA STATE TOTALS	16	2	0	0	0 0
TENNESSEE					
AIR FORCE					
ARNOLD AFB	32	17	2	2	
KNOXVILLE ANG					
MEMPHIS ANG					
NASHVILLE ANG					
ARMY					
HOLSTON AAP	1				
MILAN AAP	9	4	3	1	1
VOLUNTEER AAP	7	7			7
DEFENSE LOGISTICS AGENCY					
DDMT MEMPHIS	25	25	3	3	2

DEPARTMENT OF DEFENSE
 INSTALLATION RESTORATION PROGRAM STATUS REPORT
 MASTER STATUS LISTING AS OF 30 SEPTEMBER 1986

PA/SI R2	T	RI/FS LTM	R4	RD/RA T	C
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NAVY

NAS MEMPHIS	15	15				
NWIRP BRISTOL						

TENNESSEE STATE TOTALS	89	68	3	6	13	2
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TRUST TERRITORIES

AIR FORCE

WAKE ISLAND	12	17				
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TRUST TERRITORIES STATE TOTALS	12	17	0	0	0	0
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TEXAS

AIR FORCE

AFP NO.4, FT. WORTH	19	20				
BERGSTROM AFB	10	10				
BROOKS	8					
CARSWELL AFB	19	12				
DYESS	5					
ELLINGTON ANG		2				
GOODFELLOW AFB	13	4				
KELLY AFB	39	38		3	3	
LACKLAND	3	17				
LAUGHLIN	7	9				
RANDOLPH	4	12				
REESE AFB	6	14		1	1	
SHEPPARD AFB	4	4				

ARMY

CAMP BULLIS						
CORPUS CHRISTI AD						
FORT BLISS		1				
FORT HOOD (NORTH)						
FORT SAM HOUSTON						
FUELS AND LUBRICANT RESEARCH LAB						
LONE STAR AAP	16	14	11	3	3	3
LONGHORN AAP	27	27	23	4	4	
RED RIVER ARMY DEPOT						
SAGINAW AAP						

DEPARTMENT OF DEFENSE
 INSTALLATION RESTORATION PROGRAM STATUS REPORT
 MASTER STATUS LISTING AS OF 30 SEPTEMBER 1986

PA/SI R2	RI/FS T LTM R4	RD/RA T C
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NAVY

NAS CHASE FIELD	4	4			
NAS CORPUS CHRISTI	12	12			
NAS DALLAS	5	5			
NAS KINGSVILLE	16	7			
NWIRP DALLAS	9	9			
NWIRP MCGREGOR	7	7	2	2	

TEXAS STATE TOTALS	233	228	34	13	13	3
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UTAH

AIR FORCE

AFP NO.78, CORINNE	4	7			
HILL AFB	7	30	6	2	2
SALT LAKE CITY ANG					

ARMY

BLANDING LAUNCH AREA					
DUGWAY PROVING GROUND		2			
FORT DOUGLAS					
GREEN RIVER TEST SITE					
TOOELE AD	4	80	10		
WIG MOUNTAIN AREA					

DEFENSE LOGISTICS AGENCY

DDOU OGDEN	3	3			
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NAVY

NIROP MAGNA	1				
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UTAH STATE TOTALS	19	122	10	6	2	2
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VIRGINIA

AIR FORCE

BYRD ANG					
LANGLEY AFB	10	10	9	1	1

ARMY

ARLINGTON HALL STATION					
CAMERON STATION					
FORT A.P.HILL	1	3	3	3	1
FORT BELVOIR	5	4	1	1	1

DEPARTMENT OF DEFENSE
 INSTALLATION RESTORATION PROGRAM STATUS REPORT
 MASTER STATUS LISTING AS OF 30 SEPTEMBER 1986

	PA/SI R2	RI/FS T	LTM	R4	RD/RA T	C
FORT EUSTIS						
FORT LEE						
FORT MONROE	5	5			5	
FORT MYER						
FORT PICKETT						
FORT STORY						
RADFORD AAP		1			1	
VINT HILL FARMS STATION	1	1			1	
WOODBIDGE RESEARCH FACILITY		2	1	1	1	1
DEFENSE LOGISTICS AGENCY						
DGSC RICHMOND	3	4		1	1	
NAVY						
FCTC DAM NECK	4	4				
MCDEC QUANTICO	6	5				
NAB LITTLE CREEK						
NAS NORFOLK						
NAS OCEANA	6	6				
NB NORFOLK (SEWELL'S POINT)	6	5				
NRTF DRIVER	2	1				
NSC CHEATHAM ANX WILLIAMSBURG	20	20				
NSC CRANEY ISLAND	5	6				
NSC NORFOLK						
NSWC DAHLGREN	7	5		2	2	2
NSY NORFOLK	9	7				
NWS YORKTOWN	15	15				
PWC NORFOLK	4	1				
ST.JULIEN'S CREEK ANNEX						
<hr/>						
VIRGINIA STATE TOTALS	109	105	10	9	16	5
VERMONT						
AIR FORCE						
BURLINGTON ANG	2	2				
ARMY						
ETHAN ALLEN FIRING RANGE						
<hr/>						
VERMONT STATE TOTALS	2	2	0	0	0	0

DEPARTMENT OF DEFENSE
 INSTALLATION RESTORATION PROGRAM STATUS REPORT
 MASTER STATUS LISTING AS OF 30 SEPTEMBER 1986

PA/SI R2	T	RI/FS LTM	R4	RD/RA T	C
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WASHINGTON

AIR FORCE

BOEING FIELD					
FAIRCHILD AFB	12	14			
MCCHORD	34	29	7	1	

ARMY

FORT LEWIS		3	1	1	1
YAKIMA FIRING CENTER					

DEFENSE LOGISTICS AGENCY

DPSP MUKILTEO	2	2	1	1	
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NAVY

NAS WHIDBEY ISLAND	35	37			
NSB BANGOR	12	14			
NSY PUGET SOUND					
NUWES KEYPORT	6	6			

WASHINGTON STATE TOTALS	101	105	1	9	3	1
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WISCONSIN

AIR FORCE

GEN. BILLY MITCHELL FIELD	4	4			
TRUAX ANG					
VOLK FIELD ANG	8	11			

ARMY

BADGER AAP	15	14			
FORT McCOY					

WISCONSIN STATE TOTALS	27	29	0	0	0	0
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WEST VIRGINIA

AIR FORCE

CHARLESTON AFB					
MARTINSBURG ANG					
SHEPHERD FIELD		1			

DEPARTMENT OF DEFENSE
 INSTALLATION RESTORATION PROGRAM STATUS REPORT
 MASTER STATUS LISTING AS OF 30 SEPTEMBER 1986



	PA/SI R2	RI/FS LTM R4	RD/RA T C			
ARMY						
WEST VIRGINIA ORDNANCE WORKS		6			6	
NAVY						
ALLEGANY BALLISTICS LAB	6	6				
WEST VIRGINIA STATE TOTALS	6	13	0	0	6	0
WYOMING						
AIR FORCE						
CHEYENNE ANG F.E. WARREN AFB	14	14		1	1	
WYOMING STATE TOTALS	14	14	0	1	1	0
GRAND TOTALS						
	3520	3182	234	462	407	99

APPENDIX B

STATUS REPORT

Summary Table III

State	Number of Installations	Number of		
		PA/SI	RI/FS	RD/RA
ALASKA	59	168	158	46
ALABAMA	10	134	120	79
ARKANSAS	5	70	42	10
ARIZONA	11	38	48	5
CALIFORNIA	63	325	452	23
COLORADO	9	253	108	10
CONNECTICUT	3	4	4	0
DISTRICT OF COLUMBIA	4	3	0	0
DELAWARE	3	7	13	3
FLORIDA	18	276	232	3
GEORGIA	13	105	78	22
GUAM	3	7	16	0
HAWAII	20	32	57	4
IOWA	3	11	15	0
IDAHO	3	12	9	4
ILLINOIS	11	103	81	11
INDIANA	9	52	31	1
KANSAS	7	24	7	0
KENTUCKY	6	0	12	0
LOUISIANA	6	74	34	2
MASSACHUSETTS	10	57	73	25
MARYLAND	14	84	73	8
MAINE	5	30	26	1
MICHIGAN	10	58	28	3
MINNESOTA	4	31	34	6
MISSOURI	10	40	49	18
MISSISSIPPI	7	46	29	1
MONTANA	3	16	20	0
NORTH CAROLINA	9	57	45	7
NORTH DAKOTA	4	7	4	0
NEBRASKA	3	93	68	30
NEW HAMPSHIRE	4	33	22	2
NEW JERSEY	10	128	92	11
NEW MEXICO	6	23	29	1
NEVADA	4	10	11	0
NEW YORK	19	83	57	2
OHIO	15	76	64	0
OKLAHOMA	9	81	49	3
OREGON	3	5	32	0
PENNSYLVANIA	17	105	65	4
PUERTO RICO	5	18	18	0
RHODE ISLAND	3	12	9	3
SOUTH CAROLINA	13	101	63	5
SOUTH DAKOTA	2	16	2	0
TENNESSEE	10	89	68	13
TRUST TERRITORIES	1	12	17	0
TEXAS	29	233	228	13
UTAH	11	19	122	2
VIRGINIA	31	109	105	16

STATUS REPORT

Summary Table III

State	Number of Installations	Number of		
		PA/SI	RI/FS	RD/RA
VERMONT	2	2	2	0
WASHINGTON	10	101	105	3
WISCONSIN	5	27	29	0
WEST VIRGINIA	5	6	13	6
WYOMING	2	14	14	1
	TOTALS	3520	3182	407

APPENDIX C

LIST OF ACRONYMS AND ABBREVIATIONS

AAP	Army Ammunition Plant
AFB	Air Force Base
AFP	Air Force Plant
AFR	Air Force Reserve
AFS	Air Force Station
AMMO	Ammunition
ANGB	Air National Guard Base
DFSP	Defense Fuel Support Point
DLA	Defense Logistics Agency
DoD	Department of Defense
EPA	Environmental Protection Agency
FAC	Facility
FCTC	Fleet Combat Training Center
Ft	Fort
IAP	International Airport
IRP	Installation Restoration Program
MCAS	Marine Corps Air Station
MCB	Marine Corps Base
MCLB	Marine Corps Logistics Base
MCRD	Marine Corps Recruit Depot
NAB	Naval Amphibious Base
NAEC	Naval Air Engineering Center
NAF	Naval Air Facility
NARL	Naval Arctic Research Laboratory
NAS	Naval Air Station
NAV	Naval
NCBC	Naval Construction Battalion Center
NCP	National Contingency Plan
NCS	Naval Communications Center
NDIV	Northern Division, Naval Facilities Engineering Command
NIROP	Naval Industrial Reserve Ordnance Plant
NOS	Naval Ordnance Station
NRMC	Naval Regional Medical Center
NRS	Naval Radio Station
NRTF	Naval Radio Transmitting Facility
NS	Naval Station
NSB	Naval Submarine Base
NSC	Naval Supply Center
NUSC	Naval Underwater Systems Center
NUWES	Naval Underwater Weapons Engineering Station
NYSD	Naval Shipyard
NWIRP	Naval Weapons Industrial Reserve Plant
NWS	Naval Weapons Station
R,D&D	Research, Development and Demonstration
SUB	Submarine
USAE WES	US Army Engineers Waterways Experiment Station
USMC	US Marine Corps

TAB B

Fiscal Year 1986 Annual Report of the Defense
Environmental Restoration Program

FISCAL YEAR 1986

ANNUAL REPORT

OF THE

DEFENSE ENVIRONMENTAL
RESTORATION PROGRAM



OFFICE OF THE DEPUTY ASSISTANT SECRETARY OF DEFENSE
(ENVIRONMENT)

WASHINGTON, D.C. 20301-8000

JANUARY 1987

ANNUAL REPORT

Defense Environmental Restoration Program

SUMMARY

The primary goal of the Defense Environmental Restoration Program is to clean up contamination at toxic and hazardous waste sites. In FY 1986, the Congress appropriated \$360 million for the program. These funds were used to expand and accelerate studies and remedial actions at more than 1900 sites on DoD installations. In addition, we have completed or have underway investigations at more than 1600 formerly-owned or used sites and projects at 125. The Department is committed to carry out the program in cooperation with the Environmental Protection Agency and State agencies, with full public participation, and in compliance with environmental laws and regulations.

BACKGROUND

The Defense Environmental Restoration Program, established by the Congress in 1984, provides increased emphasis and visibility for an expanded and accelerated effort for cleanup actions at toxic and hazardous waste sites on DoD installations and provides for cleanup of properties formerly-used by the Department of Defense (DoD). The program consists of the following:

- **Installation Restoration Program (IRP):** a comprehensive program to identify, investigate, and cleanup contamination from hazardous substances and wastes on both active installations and formerly-used DoD properties. This includes requirements incident to remedial action, both on-installation and off-installation.

- **Building Demolition and Debris Removal (BD/DR):** a comprehensive program to demolish and remove unsafe buildings and structures. It applies to both active installations and formerly-used DoD properties.

- **Other Hazardous Waste Operations (OHW):** includes equipment purchases which will reduce hazardous waste generation and research, development and demonstration projects related to hazardous waste, including unexploded ordnance detection and disposal and clearance of active and former ranges, and innovative technologies for hazardous or toxic waste site cleanups.

The DoD, like private industry engages in many industrial and manufacturing operations and, in the course of doing so, uses large amounts of industrial chemicals. Although, in the past, waste from these operations was disposed of by accepted practices, we have found that past practices may have resulted in inadvertent environmental contamination and risks to people and the environment.

We have identified about 3,500 sites on DoD installations with the potential for contamination. The IRP identifies, investigates and provides appropriate studies and remedial actions at these potential sites. Over 100 of these sites have already been cleaned up and another 3,200 are undergoing studies or are in some stage of remediation. Additionally, there are approximately 7,000 identified potential hazardous or toxic waste sites on properties formerly-owned or used by the DoD which require investigation to determine the degree of DoD responsibility, if any.

PROGRESS

In FY 1986, program management was enhanced by the appointment of a new Deputy Assistant Secretary of Defense for Environment (DASD(E)), Mr. Carl J. Schafer, Jr., to provide oversight and direct the expenditure of the \$360 million appropriation.

The DASD(E) allocated \$246 million to the Services to carry out installation restoration work at over 1,900 sites. These funds were expended on site studies and cleanups. Like EPA, DoD follows the National Contingency Plan (NCP). Therefore, progress of site cleanup can be divided into the following steps: Preliminary Assessments/Site Inspections (PA/SI); Remedial Investigations/Feasibility Studies (RI/FS); and Remedial Actions (RA). Appendix A provides additional information on these steps.

Essentially all of the PA/SI work is complete. FY 1986 resources were targeted to RI/FS and RA projects. Specifically, funds were expended at 1,811 sites for RI/FS work and 293 sites for Remedial Actions. A detailed list of these sites, arranged by Service and State, is attached.

Complementing this effort is the work the DoD is doing on properties formerly owned or used by the department. In FY 1986 the total sites investigated exceeded 1,160 and there are 490 more underway. These investigations resulted in completed or ongoing remediation projects at 125 sites in FY 1986 and 50 more are expected to begin in FY 1987. Of the FY 1986 projects, 112 are for removal of unsafe buildings, structures or debris, 11 are for removal of hazardous or toxic substances and 2 are for RI/FS work at sites where DoD was the lead.

Total expenditures for BD/DR were approximately \$27 million in FY 1986. The majority of these efforts occurred at formerly used or owned DoD properties.

The Environmental Restoration Program also provides funds for related functions such as hazardous waste reduction/minimization, and detection and disposal of unexploded ordnance. The DASD(E) allocated \$27 million for technology development and other activities for waste reduction and improvements in site remediation practices. Specifically, the DoD established a working group consisting of DoD, EPA and the Department of Energy. The group has identified 63 projects representing a wide range of technologies to cleanup and minimize hazardous waste. DoD is funding 42% of this effort. This, coupled with innovative technology in solvent recycling, explosive manufacturing, hard chrome plating, plastic media paint stripping, boiler cleaning chemical recycling and various hazardous waste equipment purchases; accounted for the FY1986 expenditure in their area.

The FY 1986 budget for environmental restoration also included \$61 million for hazardous waste disposal operations. In FY 1987 and beyond, this function will be financed in the Services' Operations and Maintenance appropriations.

The accompanying data provide detailed information concerning the specific sites. It should be noted that this information only addresses efforts utilizing FY1986 dollars. Projects which were funded in prior years yet completed in 1986 add to DoD's accomplishments.

The Congress, in 1987, appropriated \$376 million to continue the momentum. The Department's top priority remains the cleanup of toxic and hazardous waste sites. The DASD(E) will continue to exercise aggressive oversight to insure that the funds are applied consistent with the policy of worst first.

Summary of Hazardous Waste

Remediation FY 1986 IRP

	# of Installations	# of Sites	# of Projects*			Total
			PA/SI	RI/FS	RD/RA	
Army	45	146	--	119	50	169
Navy	55	465	--	465	--	465
Air Force	125	1299	--	1218	242	1460
DLA	<u>9</u>	<u>10</u>	<u>--</u>	<u>9</u>	<u>1</u>	<u>10</u>
Total	234	1920	0	1811	293	2104

*Note Project counts do not equal site counts as some sites have multiple projects funded in FY 86.

NOTE: Appendix A is the listing of sites in the FY 1986 IR Program sorted by service. Appendix B is the same information sorted by state.

APPENDIX A

ARMY

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
 INSTALLATION RESTORATION PROGRAM
 (FY 86)**

Site Name	Description	Project
** ABERDEEN PRVG GRND, ABERDEEN, MD (ARMY)		
SITE 2	CARROL ISLAND	RI/FS
SITE 3	GRACES QRTS	RI/FS
SITE 4	O-FIELD	RI/FS
SITE 5	CANAL CREEK	RI/FS
SITE 6	NIKE SITE	RI/FS
SITE 7	WHITE PHOSPHORUS DISPOSAL	RI/FS
** ALABAMA AAP, AL (ARMY)		
SITE 10	MAGAZINE AREA	RA
SITE 11	OLD BURNING GROUNDS	RA
SITE 12	SMALL ARMS BALLASTICS RANGE	RA
SITE 13	OLD WELL	RA
SITE 14	PROPELLANT SHIPPING HOUSES	RA
SITE 15	SITES 6-24	RA
** ANNISTON AD, AL (ARMY)		
SITE 1	BLDG 114	RA
SITE 2	Z-1	RA
SITE 3	BLDG 130	RA
SITE 4	LANDFILL (SOUTH)	RA
SITE 20	OTHER (OPTION OF GWTS)	RA
** CORNHUSKER AAP, NE (ARMY)		
SITE 2	EARTHEN IMPOUNDMENTS (56)	RA
** DUGWAY PROVING GROUND, UT (ARMY)		
SITE 1	OPEN PITS	RVFS
SITE 2	DUMP SITE	RVFS
** FORT BLISS, TX (ARMY)		
SITE 1	FIRE FIGHTING TRAINING AREA	RVFS
** FORT CAMPBELL, KY (ARMY)		
SITE 2	CAMPBELL AIR FIELD	RVFS
** FORT DIX, NJ (ARMY)		
SITE 3	TCE DUMPSITE	RVFS
SITE 4	NPL LANDFILL	RVFS
SITE 5	DIO MAINTENANCE	RVFS
SITE 6	DIO TRANS DIV MOTOR POOL	RVFS
SITE 7	OPT AVIATION DIV	RVFS
SITE 8	DEH MOTOR POOL	RVFS
SITE 9	AAFES PX SERVICE STATION	RVFS
SITE 10	5TH BDE MOTOR POOL	RVFS
SITE 11	5TH BDE MAINTENANCE	RVFS
SITE 12	2/5 BN MOTOR POOL	RVFS
SITE 13	3/5 BN MOTOR POOL	RVFS
SITE 14	78TH DIV RESERVES ECS 26	RVFS
SITE 15	OPCA AUTO CRAFT SHOP	RVFS
SITE 16	511/759TH M.P. MOTOR POOL	RVFS

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
 INSTALLATION RESTORATION PROGRAM
 (FY 86)**

Site Name	Description	Project
SITE 17	556TH MED AMB MOTOR POOL	RI/F5
SITE 18	39TH ENGR MOTOR POOL	RI/F5
SITE 19	DIO MAINTENANCE	RI/F5
** FORT EUSTIS, VA (ARMY)		
SITE 1	HELICOPTER MAINTENANCE AREA	RI/F5
SITE 3	SEVERAL OLD LANDFILLS	RI/F5
** FORT IRWIN, CA (ARMY)		
SITE 1	VALLEY DISPOSAL SITE	RI/RA
SITE 2	OB/OD AREA	RI/RA
SITE 3	TROOP LANDFILL	RI/RA
SITE 4	DUCK POND	RI/RA
** FORT KNOX, KY (ARMY)		
SITE 1	POL CONTAMINATED SOIL	RI/RA
** FORT LEWIS, WA (ARMY)		
SITE 2	FIRE PIT/EOD RANGE	RI/F5
SITE 3	LANDFILL 5	RI/F5
SITE 4	LOG CENTER	RI/F5
** FORT MCCLELLAN, AL (ARMY)		
SITE 4	RANGE T-24A	RI/F5
SITE 5	RANGE T-38	RI/F5
SITE 6	RANGE I	RI/F5
SITE 7	RANGE J	RI/F5
SITE 8	RANGE L	RI/F5
SITE 9	RANGE K	RI/F5
SITE 10	FORMER LANDFILL	RI/F5
SITE 11	FORMER LANDFILL	RI/F5
SITE 12	FORMER LANDFILL	RI/F5
** FORT ORD, CA (ARMY)		
SITE 11	FIRE PRACTICE AREA	RI/F5
SITE 12	LANDFILL	RI/F5
** FORT WAINWRIGHT, AK (ARMY)		
SITE 2	OLD DRUM STORAGE AREA	RI/F5
SITE 3	FAMILY HOUSING AREA	RI/F5
SITE 4	COAL PILE	RI/F5
** HAMILTON ARMY AIR FIELD, CA (ARMY)		
SITE 1	EXCESS SITE	RI/RA
** IOWA AAP, IA (ARMY)		
SITE 2	PINK WATER LAGOON-FORMER LINE 1 IMPOUND	RI/F5
SITE 3	INERT LANDFILL	RI/F5
** JOLET AAP, IL (ARMY)		
SITE 2	MANUFACTURING AREA	RI/F5
** KANSAS AAP, KS (ARMY)		
SITE 1	LAP DEMOLITION AND LANDFILL	RI/F5

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
 INSTALLATION RESTORATION PROGRAM
 (FY 86)**

Site Name	Description	Project
** LAKE CITY AAP, MD (ARMY)		
SITE 1	LANDFILL AND OTHERS	RI/FS
SITE 2	LAGOONS	RA
SITE 3	CONTAMINATED SOIL	RA
** LETTERKENNY ARMY DEPOT, PA (ARMY)		
SITE 1	DPDO AREA	RI/FS
SITE 2	DISPOSAL AREA	RI/FS
SITE 3	LAGOON	RI/FS
SITE 4	SOUTHEAST INDUSTRIAL AREA	RI/FS
** LONE STAR AAP, TX (ARMY)		
SITE 5	MIGRATION MANAGEMENT	RI/FS
SITE 6	OLD DEMOLITION GROUNDS	RI/FS
SITE 7	OLD WELLS AND CISTERNS	RI/FS
** LONGHORN AAP, TX (ARMY)		
SITE 3	UNLINED EVAPORATION POND	RA
** LOUISIANA AAP, LA (ARMY)		
SITE 1	AREA P	RI/FS
SITE 2	BG5	RI/FS
SITE 3	LANDFILL 3	RI/FS
SITE 4	LANDFILL 8	RI/FS
** MILAN AAP, TN (ARMY)		
SITE 1	HIGH PRESSURE WASHOUT SYSTEM	RI/FS
SITE 2	OPEN BURNING/OPEN DETONATION AREA	RI/FS
** NATICK R&D COMMAND, MA (ARMY)		
SITE 1	FIRE PIT AREA	RA
** NEW CUMBERLAND AD, PA (ARMY)		
SITE 1	EASTERN DISTRIBUTION CENTER	RA
SITE 3	SOLVENT TANK T-950	RA
** PHOENIX NIKE, MD (ARMY)		
SITE 1	TOTAL NIKE SITE	RA
** PRESIDIO OF MONTEREY, CA (ARMY)		
SITE 3	DUMP 1	RI/FS
** PUEBLO DEPOT ACTIVITY, CO (ARMY)		
SITE 1	SEVERAL SITES	RI/FS
** RADFORD AAP, VA (ARMY)		
SITE 1	LAGOON	RA
SITE 2	OTHER SITES	RI/FS
** RED RIVER ARMY DEPOT, TX (ARMY)		
SITE 1	OTC AREA	RA

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

Site Name		Description	Project
SITE	2	CHROMATE SLUDGE BED	RA
** RIVERBANK AAP, CA (ARMY)			
SITE	1	IWTP	RI/RA
SITE	2	SITES 2-10	RU/RA
** ROCKY MOUNTAIN ARSENAL, CO (ARMY)			
		REMEDIATION INVESTIGATIONS	RI/FS
		ENDANGERMENT ASSESSMENT	RI/FS
		FEASIBILITY STUDY	RI/FS
		DESIGN AND EXECUTION (REMOVAL)	RI/FS
		OPERATION AND MAINT.	RI/FS
		PROGRAM SUPPORT	RU/FS
** SACRAMENTO AD, CA (ARMY)			
SITE	1	OXIDATION LAGOON	RU/FS
SITE	3	BURN PIT	RU/FS
SITE	4	UNDERGROUND TANKS	RA
** SHARPE ARMY DEPOT, CA (ARMY)			
SITE	1	SOUTH BALLOON AREA	RU/RA
SITE	2	NORTH BALLOON AREA	RU/FS
SITE	3	SITES 3-14	RA
** TOOELE AD, UT (ARMY)			
SITE	1	WINDOWS	RU/FS
SITE	2	INDUSTRIAL WASTE POND	RU/FS
SITE	3	CAMDS	RU/FS
SITE	4	GRAVEL PIT	RU/FS
SITE	5	PITS (UNKNOWN NUMBER)	RU/FS
SITE	6	MUSTARD HOLDING AREA	RU/FS
SITE	7	EXPLOSION CRATERS	RU/FS
SITE	11	DRAINAGE PONDS	RU/FS
SITE	12	SPOIL AREA	RU/FS
** TWIN CITIES AAP, MN (ARMY)			
SITE	1	SLUDGE AND SUMP ANALYSIS	RA
SITE	3	129-3	RU/RA
SITE	4	129-5	RU/RA
SITE	5	129-15	RU/RA
SITE	6	A	RU/RA
SITE	7	B	RU/RA
SITE	8	C	RU/RA
SITE	9	D	RU/RA
SITE	10	E	RU/RA
SITE	11	F	RU/RA
SITE	12	G	RU/RA
SITE	13	H	RU/RA
SITE	14	I	RU/RA
SITE	15	J	RU/RA
SITE	16	K	RU/RA
** VOLUNTEER AAP, TN (ARMY)			
SITE	1	MONITORING	RU/FS

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
 INSTALLATION RESTORATION PROGRAM
 (FY 86)**

Site Name	Description	Project
** WELDON SPRING TRAINING AREA, MD (ARMY)		
SITE 1	DOE/DA MOU	R/FS
** WEST PALM BEACH, FL (ARMY)		
SITE 1	ANNEX I AND II	RA
** WEST VIRGINIA ORDNANCE WORKS, WV (ARMY)		
SITE 2	TNT AREA	R/FS
SITE 3	BURNING GROUNDS	R/FS
SITE 4	PROCESS SEWER LINES	R/FS
SITE 5	YELLOW WATER/ACID AREA	R/FS
SITE 6	RED WATER RESVRS AREA	R/FS
SITE 7	POND B AREA	R/FS
** WHITE SANDS MISSILE RANGE, NM (ARMY)		
SITE 1	SEVERAL SITES	R/FS
** WOODBRIDGE RESEARCH FACILITY, VA (ARMY)		
SITE 2	PCB BURIAL SITE	R/FS
** YUMA PROVING GROUND, AZ (ARMY)		
SITE 1	LEAD ARSENIC SITE	RA

NAVY

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

Site Name	Description	Project
** CBC GULFPORT, MS (NAVY)		
SITE 1	FIRE FIGHTING TRAINING AREA	RI/FS
SITE 2	DISASTER RECOVERY DISPOSAL AREA	RI/FS
SITE 3	WW II LANDFILL	RI/FS
SITE 4	NW LANDFILL	RI/FS
SITE 5	GOLF COURSE LANDFILL	RI/FS
SITE 6	HEAVY EQ. TRAINING AREA LNDFL	RI/FS
SITE 7	RUBBLE DISPOSAL AREA	RI/FS
SITE 8	BUILDING FOUNDATION 271	RI/FS
** CBC PORT HUENEME, CA (NAVY)		
SITE 1	NCEL STOR. YD	RI/FS
SITE 12	EARTH MOVING AREA	RI/FS
SITE 13	HARBOR AND CANALS	RI/FS
SITE 14	PROPOSED NTC BLDG SITE	RI/FS
SITE 15	CEC PCB SPILLS	RI/FS
SITE 17	MUSE PCB SPILL	RI/FS
SITE 19	TRANSFORMER STOR.	RI/FS
SITE 20	HW MAG.	RI/FS
** MCAS CHERRY POINT, NC (NAVY)		
SITE 1	BORROW PIT/DUMP SITE	RI/FS
SITE 2	BORROW PIT/LANDFILL	RI/FS
SITE 5	OLD SANITARY LANDFILL	RI/FS
SITE 6	AREA AND DITCH BEHIND NALF	RI/FS
SITE 7	LANDFILL AT SANDY BRANCH	RI/FS
SITE 8	DPOO STORAGE AREA	RI/FS
SITE 8	BORROW PIT/LANDFILL NORTH OF RWY 14	RI/FS
SITE 9	BORROW PIT/LANDFILL	RI/FS
SITE 10	STORAGE TANK FOR WASTE POL	RI/FS
SITE 10	FLY ASH PONDS	RI/FS
SITE 11	OLD INCINERATOR	RI/FS
SITE 12	TANK FARM A	RI/FS
SITE 12	FACILITIES MANT. COMPOUND	RI/FS
SITE 13	BORROW PIT/LANDFILL	RI/FS
** MCAS EL TORO, CA (NAVY)		
SITE 1	GRDNANCE DISPOSAL AREA	RI/FS
SITE 2	COMM STATION LNDFL	RI/FS
SITE 3	CRASH CREW PIT NO. 1	RI/FS
SITE 5	TRANSFORMER STOR. AREA	RI/FS
SITE 9	BATTERY ACID DISP PIT	RI/FS
SITE 9	CRASH CREW PIT NO 2	RI/FS
SITE 11	MAGAZINE RD LANDFILL	RI/FS
SITE 14	ORIGINAL LANDFILL	RI/FS
SITE 16	PERIMETER RD LANDFILL	RI/FS
** MCAS KANEHE, HI (NAVY)		
SITE 1	H-3 LNDFL	RI/FS
** MCAS TUSTIN, CA (NAVY)		
SITE 1	HOFFETT TRENCHES & CRASH PIT	RI/FS

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

Site Name	Number	Description	Project
SITE	2	DRAINAGE NO.1	R/IFS
SITE	3	GROUND ADJACENT TO ARPON	R/IFS
SITE	5	OIL DISPOSAL AREA	R/IFS
SITE	7	PAINT STRIPPER DISPOSAL AREA	R/IFS
SITE	10	DRUM STORAGE AREA NO. 2	R/IFS
SITE	12	DRUM STORAGE AREA NO. 3	R/IFS
** MCAS YUMA, AZ (NAVY)			
SITE	3	FIRE SCHOOL	R/IFS
SITE	4	SE SEWAGE LAGOON	R/IFS
** MCB CAMP LEJEUNE, NC (NAVY)			
SITE	1	CAMP GEIGER AREA FUEL FARM	R/IFS
SITE	2	FRENCH CREEK LIQUIDS DISPOSAL AREA	R/IFS
SITE	3	FORMER NURSERY/DAY CARE CENTER	R/IFS
SITE	4	STORAGE LOTS 201 AND 203	R/IFS
SITE	5	FIRE FIGHTING TRAINING PIT	R/IFS
SITE	6	TRANSFORMER STORAGE LOT 140	R/IFS
SITE	7	INDUSTRIAL TANK FARM AREA	R/IFS
SITE	8	INDUSTRIAL FLY ASH DUMP	R/IFS
SITE	9	HADNOT POINT BURN DUMP	R/IFS
SITE	10	SNEADS FERRY ROAD FUEL TANK AREA	R/IFS
SITE	11	CAMP GEIGER DUMP	R/IFS
SITE	12	UNDERGROUND AVGAS STORAGE	R/IFS
SITE	13	MCAS NEW RIVER MERCURY DUMP SITE	R/IFS
SITE	14	CRASH CREW FIRE TRAINING	R/IFS
SITE	15	RIFLE RANGE DUMP	R/IFS
SITE	16	RIFLE RANGE CHEMICAL DUMP	R/IFS
SITE	17	LIQUID DISPOSAL	R/IFS
SITE	18	MESS HALL GREASE PIT AREA	R/IFS
SITE	19	BASKETBALL COURT SITE	R/IFS
SITE	20	CURTIS ROAD SITE	R/IFS
SITE	21	NEW RIVER OFFICER'S HOUSING AREA	R/IFS
SITE	22	HAPID REFUELING SITE	R/IFS
SITE	23	CAMP GEIGER AREA DUMP	R/IFS
** MCB CAMP PENOLETUM, CA (NAVY)			
SITE	1	PEST CONTROL WASHRACK DRAIN DITCH	R/IFS
SITE	3	MCAF DRAINAGE DITCH	R/IFS
SITE	5	FIRE FIGHTING DRILL FIELD	R/IFS
SITE	6	OPOO SCRAP YARD	R/IFS
SITE	8	LAS PULGAS LANDFILL	R/IFS
** MCOEC QUANTICO, VA (NAVY)			
SITE	1	PESTICIDE BURIAL AREA (SITE 1)	R/IFS
SITE	2	OLD LANDFILL (SITE 4)	R/IFS
SITE	3	OLD BATCH PLANT (SITE 5)	R/IFS
SITE	4	RECENTLY CLOSED LANDFILL (SITE 7)	R/IFS
SITE	5	ARSENIC DISPOSAL AREA (SITE 17)	R/IFS
** MCLB ALBANY, GA (NAVY)			
SITE	1	E. DISPOSAL AREA	R/IFS

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
 INSTALLATION RESTORATION PROGRAM
 (FY 86)**

Site Name		Description	Project
SITE	2	RUBBLE DISPOSAL AREA	RI/FS
SITE	3	W. DISPOSAL AREA	RI/FS
SITE	4	LONG-TERM LNDFL	RI/FS
SITE	5	IND. DISCHARGE DRAINAGE DITCH	RI/FS
SITE	6	PENTACHLOROPHENOL DIP TANK	RI/FS
SITE	7	CLEANING TANK BLDG 572	RI/FS
** MCLB BARSTOW, CA (NAVY)			
SITE	1	IND. WASTE DISPOSAL AREA	RI/FS
SITE	2	PESTICIDE STOR. & WASHOUT	RI/FS
SITE	3	FUEL DISPOSAL AREA	RI/FS
SITE	4	SLUDGE WASTE AREA, YERMO	RI/FS
SITE	5	INDUSTRIAL WASTE TREATMENT AREA	RI/FS
SITE	6	PCB STORAGE AREA	RI/FS
SITE	7	LOW LEVEL RADIOLOGICAL STORAGE AREA	RI/FS
SITE	8	CHEMICAL STORAGE AREA	RI/FS
** NAB CORONADO, CA (NAVY)			
SITE	1	OLD REFUSE DISP/BURN AREA	RI/FS
SITE	2	SANDBLAST GRIT DISP. AREA	RI/FS
SITE	3	FIRE FIGHTING TRAINING AREA	RI/FS
SITE	4	OILED AREAS	RI/FS
** NAEC LAKEHURST, NJ (NAVY)			
SITE	1	BLIMP CRASH SITE	RI/FS
SITE	2	RSTS TRACK 2	RI/FS
SITE	3	DRAINAGE DITCH	RI/FS
SITE	4	DEADLOAD MAINTENANCE SHOP	RI/FS
SITE	5	ARRESTING ENGINE TRACK 2, BLDG 371	RI/FS
SITE	6	HANGAR 2 DISPOSAL AREA	RI/FS
SITE	7	CATAPULT TEST FAC.	RI/FS
SITE	8	CATAPULT TEST STOR AREA	RI/FS
SITE	9	ARRESTING ENGINE TRACK, BLDG 529	RI/FS
SITE	10	FUEL TRUCK STOR AREA	RI/FS
SITE	11	HANGAR 5 DISPOSAL AREA	RI/FS
SITE	12	FUEL STOR FAC 141	RI/FS
SITE	13	FUEL FARM NO. 125	RI/FS
SITE	14	OLD FIRE FIGHTING SCHOOL	RI/FS
SITE	15	BLDG 562	RI/FS
SITE	19	NATTC FIRE FIGHTING TRAINING AREA	RI/FS
SITE	20	FUEL FARM NO 196	RI/FS
SITE	21	EXCHANGE GAS STATION	RI/FS
SITE	22	SATS CATAPULT (7401 TEST SITE)	RI/FS
SITE	23	TETRAETHYL LEAD DISPOSAL SITE	RI/FS
SITE	24	JET CAR MAINTENANCE SHOP	RI/FS
SITE	25	JET BLAST DEFLECTOR	RI/FS
SITE	26	DISPOSAL AREA	RI/FS
SITE	27	CATAPULT TEST SITE 7419	RI/FS
SITE	28	TEST DEPT DISPOSAL AREA	RI/FS
SITE	29	CONTRACTOR DISPOSAL AREA	RI/FS
SITE	30	RSTS SCRAP SITE	RI/FS
SITE	31	WEST FIELD HANGAR AREA	RI/FS

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

Site Name	Description	Project
SITE 32	ORIGINAL BASE LANDFILL	RVFS
SITE 33	RSTS TRACK 4 RECOVERY END	RVFS
SITE 34	SANITARY LANDFILL	RVFS
SITE 35	RSTS LAUNCHING END	RVFS
SITE 36	REFUELER REPAIR SHIP DRYWELL	RVFS
SITE 37	PARACHUTE JUMP CIRCLE	RVFS
SITE 38	HELICOPTER REFUELING AREA	RVFS
SITE 39	HANGAR 1 DISPOSAL AREA	RVFS
SITE 40	FUEL DISPOSAL AREA	RVFS
SITE 41	OIL SKIMMING AND SLUDGE DISPOSAL AREA	RVFS
SITE 42	POL DISPOSAL AT HANGAR 3	RVFS
SITE 43	SOIL STABILIZATION FIELD TEST	RVFS
SITE 44	BASE LANDFILL	RVFS
SITE 45	PCB STOR AND TESTING AREA	RVFS
SITE 46	BOMARK SITE	RVFS
** NAPC TRENTON, NJ (NAVY)		
	BAROMETRIC WELL	RVFS
** NAS AGANA, GU (NAVY)		
SITE 1	LNOFL 2	RVFS
SITE 2	NAVMAG-ROD FORMER DEMO RANGE	RVFS
SITE 3	SANITARY LANDFILL	RVFS
SITE 4	DRAINAGE BURN HOLDING POND	RVFS
SITE 5	LNOFL 1	RVFS
** NAS ALAMEDA, CA (NAVY)		
SITE 1	WEST BEACH LANDFILL	RVFS
SITE 2	1943,1956 DISPOSAL ARE	RVFS
SITE 3	SEAPLANE LAGOON	RVFS
SITE 4	AREA 97	RVFS
SITE 5	BLDG 301 AND 389	RVFS
SITE 6	CANS C-2 AREA	RVFS
SITE 7	BLDG 360	RVFS
** NAS BARBERS POINT, HI (NAVY)		
SITE 1	SANITARY LNOFL	RVFS
SITE 2	CORAL SEA RD CORAL PIT	RVFS
SITE 3	ORDY POND	RVFS
** NAS BRUNSWICK, ME (NAVY)		
SITE 1	LANDFILL ORION ST (NORTH)	RVFS
SITE 2	LANDFILL ORION ST (SOUTH)	RVFS
SITE 3	MW BURIAL AREA	RVFS
SITE 4	ACID/CAUSTIC PIT	RVFS
SITE 5	OIL ACID/CAUSTIC PIT	RVFS
SITE 6	PERIMETER ROAD DISPOSAL SITE	RVFS
SITE 7	NEPTUNE DR DISPOSAL SITE	RVFS
** NAS CECIL FIELD, FL (NAVY)		
SITE 1	OLD LNOFL	RVFS
SITE 2	GREASE PITS	RVFS

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
 INSTALLATION RESTORATION PROGRAM
 (FY 86)**

Site Name		Description	Project
SITE	3	DISPOSAL AREA NORTHWEST	RI/FS
SITE	4	OLD FIRE FIGHTING TRAINING AREA	RI/FS
SITE	5	HW/FIRE FIGHTING TRAINING AREA	RI/FS
SITE	7	GOLF COURSE PESTICIDE DISP.	RI/FS
SITE	8	AIMD SEEPAGE PIT	RI/FS
SITE	10	OIL SLUDGE DISP. PIT SW	RI/FS
SITE	11	RECENT LNDFL	RI/FS
SITE	16	OIL SLUDGE PIT	RI/FS
** NAS CHASE FIELD, TX (NAVY)			
SITE	1	NW RUBBLE DISP. AREA	RI/FS
SITE	2	SE DISP. AREA	RI/FS
SITE	3	FIRE FIGHTING TRAINING AREA	RI/FS
SITE	4	OLD FIRE FIGHTING TRAINING AREA	RI/FS
** NAS CORPUS CHRISTI, TX (NAVY)			
SITE	1	CCAD LIQUID WASTE DISP AREA	RI/FS
SITE	2	DPOG LNDFL	RI/FS
SITE	3	NORHT GATE DISPOSAL AREA	RI/FS
SITE	4	FUEL FARM 216	RI/FS
** NAS DALLAS, TX (NAVY)			
SITE	1	FORMER FIRE FIGHTING TRAINING AREA	RI/FS
SITE	2	RUBBLE LANDFILL	RI/FS
SITE	3	PCB LEAK	RI/FS
SITE	4	PAINT STRIPPING AREA	RI/FS
SITE	5	TANG AREA DRAINAGE DITCH	RI/FS
** NAS JACKSONVILLE, FL (NAVY)			
SITE	1	JP-4 EXPLOSION FUEL FARM	RI/FS
SITE	2	HANGAR BUILDING 101	RI/FS
SITE	3	OLD TEST CELL BLDG	RI/FS
SITE	4	BATTERY SHOP	RI/FS
SITE	5	SOLVENT AND PAINT SLUDGE	RI/FS
SITE	6	STORM SEWER DISCHARGE BLACK POINT	RI/FS
SITE	7	SHORELINE FILL	RI/FS
SITE	8	OLD DISPOSAL AREA	RI/FS
SITE	9	RADIUM PART WASTE DISPOSAL PIT	RI/FS
SITE	10	(OTHER) GLASS BEAD DISPOSAL AREA	RI/FS
SITE	11	(NFD) OIL POND AND LAND SPREADING AREA	RI/FS
SITE	12	OLD MAIN REGISTERED DISPOSAL AREA	RI/FS
SITE	13	RADIOACTIVE WASTE FILL AREA	RI/FS
SITE	14	PCB STORAGE	RI/FS
SITE	15	(NAS) PRESENT FIREFIGHTING TRAINING AREA	RI/FS
SITE	15	OLD GAS STATION	RI/FS
SITE	15	FIRE PIT	RI/FS
SITE	16	PINE TREE PLANTING	RI/FS
SITE	16	ORGANIC DISPOSAL AREA	RI/FS
SITE	17	OLD DRUM LOT	RI/FS
SITE	18	BASE LANDFILL	RI/FS
SITE	19	TRANSFORMER BURIED AREA	RI/FS
SITE	20	INDUSTRIAL WASTEWATER DISCHARGE	RI/FS

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

Site Name	Description	Project
** NAS KEY WEST, FL (NAVY)		
SITE 1	TRUMAN ANNEX DISP AREA	R/FS
SITE 2	TRANSFORMER OIL DISP AREA	R/FS
SITE 3	NORTH LANDFILL	R/FS
SITE 4	SOUTH LNDFL	R/FS
SITE 5	TANK FARM	R/FS
SITE 6	FIRE FIGHTING TRAINING AREA	R/FS
SITE 7	TRUMAN ANNEX DDT MIXING AREA	R/FS
SITE 8	BOCA CHICA OPEN DISP AREA	R/FS
SITE 9	BOCA CHICA DDT MIXING AREA	R/FS
** NAS KINGSVILLE, TX (NAVY)		
SITE 1	SEWAGE TREATMENT PLANT LNDFL	R/FS
SITE 3	TRANS. MTR POOL	R/FS
SITE 5	FIRE FIGHTING TRAINING AREA	R/FS
SITE 6	LNDFL	R/FS
SITE 7	WASTE POL/SOLVENT DISP.	R/FS
SITE 8	AVGAS FUEL FARM-SOUTH FIELD	R/FS
SITE 10	AVGAS FUEL FARM-NORTH FIELD	R/FS
** NAS LEMDORE, CA (NAVY)		
SITE 1	OPERATION AREA OPEN DITCH	R/FS
SITE 2	FIRE FIGHTING SCHOOL	R/FS
SITE 3	HOUSING AREA OPEN DITCH	R/FS
SITE 4	LANDFILL	R/FS
SITE 5	FIRE FIGHTING TRAINING FACILITY	R/FS
SITE 6	BLDG 3 TRANSFORMER SPILL	R/FS
SITE 7	BLDG 468 TRANSFORMER SPILL	R/FS
SITE 11	BLOG 752 PEST. RINSE	R/FS
SITE 12	BLOG 50 PEST RINSE	R/FS
SITE 13	OLD FIRE TRAINING AREA	R/FS
SITE 14	TRANSFORMER STORAGE AREA	R/FS
** NAS MIRAMAR, CA (NAVY)		
SITE 1	FUEL FARM OPERATING AREA	R/FS
SITE 2	ROSE CANYON	R/FS
SITE 3	FISH POND	R/FS
SITE 4	SAN CLEMENTE CANYON DISPOSAL	R/FS
SITE 5	FIRE FIGHTING DRILL FIELDS	R/FS
** NAS NEW ORLEANS, LA (NAVY)		
SITE 6	FUEL TANK STRIPPING BURN AREA	R/FS
SITE 9	LNDFL AT B 704	R/FS
SITE 20	FIRE FIGHTING TRAINING AREA	R/FS
** NAS PATUXENT RIVER, MD (NAVY)		
SITE 1	TRANSFORMER STORAGE 8516	R/FS
SITE 6	SLUDGE AT FUEL FARM A/STREAM	R/FS
SITE 7	MERMANELLE DROP SITE	R/FS
SITE 8	POND SOUTH OF SUPPLY	R/FS
SITE 9	FORMER SANITARY LANDFILL	R/FS

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
 INSTALLATION RESTORATION PROGRAM
 (FY 86)**

Site Name		Description	Project
SITE	10	DPDO SALVAGE YD	RIIFS
SITE	11	BLDG 114 DISCHARGES TO DRYWELL	RIIFS
SITE	12	SOLVENT SPILL BEHIND BLDG 114	RIIFS
SITE	13	AREA SOUTH OF BLDG 665	RIIFS
SITE	15	FISHING PT LNDFL	RIIFS
SITE	16	DISP. NEAR POND 1	RIIFS
SITE	17	STOR. AREA FUEL FARM	RIIFS
SITE	18	B111 /110 WASH RACK DRAINS	RIIFS
SITE	19	PEST CONTROL B 841	RIIFS
SITE	20	B 306/CARBONTETRACHLORIDE DISPOSAL	RIIFS

**** NAS PENSACOLA, FL (NAVY)**

SITE	1	SAN. LNDFL	RIIFS
SITE	2	WATERFRONT SEDIMENTS	RIIFS
SITE	3	CRASH CREW TRAINING AREA	RIIFS
SITE	4	NAVY YARD DISPOSAL AREA	RIIFS
SITE	5	N. CHEVALIER FIELD DISPOSAL	RIIFS
SITE	6	PESTICIDE RINSEATE AREA	RIIFS
SITE	7	TRANSFORMER STOR.	RIIFS
SITE	8	FUEL FARM PIPELINE LEAK	RIIFS
SITE	9	SLUDGE DISPOSAL AT FUEL TANK	RIIFS
SITE	10	RFUELER REPAIR SHOP FUEL DISPOSAL	RIIFS
SITE	11	CHEVALIER FIELD PIPELINE LEAK	RIIFS
SITE	12	SUP DEPT OUTSIDE STOR	RIIFS
SITE	13	RADIAL DIAL SHOP SEWER	RIIFS
SITE	14	SOIL S. OF BLDG 3460	RIIFS
SITE	15	BLDG 649/755	RIIFS
SITE	16	BLDG 648	RIIFS
SITE	17	IND. SLUDGE DRYING BEDS	RIIFS
SITE	18	WWTP PONDS	RIIFS
SITE	19	BLDG 3557	RIIFS

**** NAS WHIDBEY ISLAND, WA (NAVY)**

SITE	1	WESERN HIGHLAND LANDFILL	RIIFS
SITE	2	1969-1970 LANDFILL	RIIFS
SITE	3	WALKER BARN STORAGE AREA	RIIFS
SITE	4	HOFFMAN ROAD LANDFILL	RIIFS
SITE	5	CURRENT LANDFILL	RIIFS
SITE	6	FUEL FARM J	RIIFS
SITE	7	PESTICIDE RINSEATE DISPOSAL	RIIFS
SITE	8	RUNWAY DITCHES	RIIFS
SITE	9	OLD AULT FIELD COAL PILE	RIIFS
SITE	10	AULT FIELD NOSE HANGARS	RIIFS
SITE	11	FUEL TRUCK DEPOT	RIIFS
SITE	12	AULT FIELD SEWAGE CLARIFIER	RIIFS
SITE	13	BOILER PLANT OIL SPILL	RIIFS
SITE	14	HANGAR 5	RIIFS
SITE	16	NW APRON AREA	RIIFS
SITE	17	PCP DIP TANK	RIIFS
SITE	18	BLDG 120 TRANSFORMER SERVICE AEA	RIIFS
SITE	19	ABANDON AULT FIELD OIL TANKS	RIIFS
SITE	20	1966 FIRE SCHOOL	RIIFS

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

Site Name	Description	Project
SITE 21	CHAPEL FIRE SCHOOL	RI/FS
SITE 22	CLOVER VALLEY ROAD FIRE SCHOOL	RI/FS
SITE 23	RUNWAY FIRE SCHOOL	RI/FS
SITE 24	BLDG 889 TRANSFORMER SERVICE	RI/FS
SITE 25	RUNWAY DITCHES AFCCA	RI/FS
SITE 26	FUEL FARM 2	RI/FS
SITE 27	FUEL FARM 1	RI/FS
SITE 28	ABANDONED SEAPLANE BASE OIL TANK	RI/FS
SITE 29	SEAPLANE BASE, SEWAGE CLARIFIER	RI/FS
SITE 30	AUTO SHOP	RI/FS
SITE 31	SEAPLANE BASE COAL PILE	RI/FS
SITE 32	BLDG 25&26 DISPOSAL AREA	RI/FS
SITE 33	GAS TANK LEAK	RI/FS
SITE 34	SEAPLANE BASE GAS STATION	RI/FS
SITE 35	SEAPLANE NOSE HANGAR	RI/FS
SITE 36	TCE TANK	RI/FS
SITE 37	SALVAGE YARD	RI/FS
SITE 38	SEAPLANE BASE LANDFILL	RI/FS
** NAS WHITING FIELD, FL (NAVY)		
SITE 1	NW DISPOSAL AREA	RI/FS
SITE 2	UNDERGROUND WASTE SOLVENT STOR AREA	RI/FS
SITE 3	NORHT AVGAS TANK SLUDGE DISPOSAL AREA	RI/FS
SITE 4	BATTERY ACID SEEPAGE PIT	RI/FS
SITE 5	OPEN DISPOSAL AND BURNING AREA	RI/FS
SITE 6	S. TRANSFORMER OIL DISPOSAL AREA	RI/FS
SITE 7	S. AVGAS TANK SLUDGE DISPOSAL AREA	RI/FS
SITE 8	AVGAS FUEL SPILL AREA	RI/FS
SITE 9	WASTE FUEL DISPOSAL AREA	RI/FS
SITE 10	SE OPEN DISPOSAL AREA A	RI/FS
SITE 11	SE OPEN DISPOSAL AREA B	RI/FS
SITE 12	TETRAETHYL LEAD DISPOSAL AREA	RI/FS
SITE 13	LANDFILL	RI/FS
SITE 14	SHORT TERM SANITARY LANDFILL	RI/FS
SITE 15	SW LANDFILL	RI/FS
** NCSG PANAMA CITY, FL (NAVY)		
SITE 1	ORIG. DISPOSAL SITE	RI/FS
SITE 2	BURN AND LNDFL AREA	RI/FS
SITE 3	OLD FIRE TRAINING AREA	RI/FS
SITE 4	UNDERGROUND OIL CONTAINER AREA	RI/FS
SITE 5	PAINT EQUIP CLEANING AREA	RI/FS
SITE 6	BURN DISPOSAL AREA	RI/FS
SITE 8	SOLVENT DISP BEHIND B40	RI/FS
** NROP CUMBERLAND, MD (NAVY)		
SITE 1	NORTHERN RIVERSIDE WASTE DISPOSAL SITE	RI/FS
SITE 2	PREVIOUS BURNING GROUND	RI/FS
SITE 3	PREVIOUS BURNING GROUND	RI/FS
SITE 4	DEVELOPING SOLUTIONS DISPOSAL AREA	RI/FS
SITE 5	INERT LANDFILL (NO ORDNANCE)	RI/FS
SITE 6	SENSITIVITY TEST AREA SURFACE WATER	RI/FS

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
 INSTALLATION RESTORATION PROGRAM
 (FY 86)**

Site Name	Description	Project
** NIROP MINNEAPOLIS, MN (NAVY)		
SITE 1	WASTE DISPOSAL TRENCHES	RI/FS
SITE 2	WASTE DISPOSAL PITS	RI/FS
SITE 3	AREA BENEATH THE NIROP BLDG	RI/FS
** NOS INDIAN HEAD, MD (NAVY)		
SITE 1	BLDG 731 X-RAY COOLING WATER	RI/FS
SITE 5	MERCURY DEPOSITS-BLAZZI PLANT	RI/FS
SITE 8	TOWN GUT	RI/FS
** NS MAYPORT, FL (NAVY)		
SITE 1	LNDFL A	RI/FS
SITE 2	WASTE OIL PIT	RI/FS
SITE 4	FUEL SPILL AREA	RI/FS
SITE 5	MERC./OILY WASTE SPILL	RI/FS
SITE 6	LNDFL D	RI/FS
SITE 8	LNDFL E	RI/FS
SITE 9	LNDFL F	RI/FS
SITE 14	LNDFL B	RI/FS
** NS ROOSEVELT ROADS, PR (NAVY)		
SITE 1	IRRNA/MAF-4 DISPOSAL SITE	RI/FS
SITE 2	OLD POWER PLANK, BLDG 38	RI/FS
SITE 3	PEST CONTROL SHOP	RI/FS
SITE 5	QUEBRADA DISP SITE	RI/FS
SITE 6	MANGROVE DISP SITE	RI/FS
SITE 7	ARMY CREMATOR DISP AREA	RI/FS
SITE 8	LANGLEY DR DISP. AREA	RI/FS
SITE 9	DRONE WASHDOWN	RI/FS
SITE 10	STATION LANDFILL	RI/FS
SITE 11	PCB DISPOSAL DRY DOCK AREA	RI/FS
SITE 12	BLDG 25	RI/FS
SITE 13	BLDG 145	RI/FS
SITE 14	TWO WAY RD FUEL FARM	RI/FS
SITE 15	TANKS 210 TO 217	RI/FS
SITE 16	EMSEN HONDA SHORELINE MAG.	RI/FS
SITE 18	SUBSTATION 2	RI/FS
** NSB BANGOR, WA (NAVY)		
SITE 1	MANCHESTER PCB CONT.	RI/FS
SITE 2	DEMOL WASTE DISP SITE	RI/FS
SITE 3	FORMER ORDNANCE BURNING	RI/FS
SITE 4	OLD CISTERN FILLED W/ GREEN LIQUID	RI/FS
SITE 5	BURIED PESTICIDES	RI/FS
SITE 6	DUNNAGE CANYON	RI/FS
SITE 11	MANCHESTER LEAD CONT	RI/FS
SITE 12	METALLURGY FAC RUBBLE	RI/FS
SITE 17	ECO TEST RANGE	RI/FS
SITE 18	FLORAL PT	RI/FS
SITE 30	OLD ACID PIT	RI/FS
SITE 32	DEMOL OPS WW DIS	RI/FS

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

Site Name	Number	Description	Project
SITE	35	FORMER WW DISCHAR.	RVFS
SITE	36	GARBAGE AND ORDNANCE DISP. AREA	RVFS
** NSB NEW LONDON, CT (NAVY)			
SITE	1	DPOO AREA	RVFS
SITE	2	AREA A LNDFL	RVFS
SITE	3	OVER-BANK DISPOSAL AREA	RVFS
SITE	4	OBDANE	RVFS
** NSY MARE ISLAND, CA (NAVY)			
SITE	1	LANDFILL	RVFS
SITE	2	OIL SUMPS	RVFS
SITE	3	BERTHS 4 AND 5	RVFS
SITE	4	900 AREA	RVFS
SITE	7	CONCORD ANNEX	RVFS
SITE	9	SLUDGE PONDS	RVFS
SITE	10	LEAD OXIDE AREAS	RVFS
** NSY PHILADELPHIA, PA (NAVY)			
SITE	1	TRANSFORMER STOR. AREA B 825	RVFS
SITE	2	BLASTING GRIT AND DRUM DISP AREA	RVFS
SITE	3	CYLINDER DISP. AREA	RVFS
SITE	4	FUEL FARM	RVFS
SITE	5	SUBSTATION 82 TRANSF. OIL SPILL	RVFS
SITE	7	B 546-PCB TRANSFORMER SPILL	RVFS
** NTC ORLANDO, FL (NAVY)			
SITE	1	NORTH FIELD LNDFL	RVFS
SITE	3	MCCOY LNDFL	RVFS
SITE	6	DPOO MCCOY ANNEX	RVFS
SITE	8	NTC PESTICIDE BLOG	RVFS
SITE	9	LAKE BALDWIN	RVFS
** NUWES KEYPORT, WA (NAVY)			
SITE	1	LANDFILL	RVFS
SITE	2	NORTH END LANDFILL INDIAN ISLAND	RVFS
SITE	9	BURIED IMHOFF TANKS	RVFS
SITE	10	VAN METER REDISPOSAL	RVFS
SITE	17	NUWES LIBERTY BAY SHORELINE	RVFS
SITE	21	BLOG 86 FILL INDIAN ISLAND	RVFS
** NWC CHINA LAKE, CA (NAVY)			
SITE	1	G1 EAST DISP AREA	RVFS
SITE	3	G-1 RANGE SEPTIC SYS	RVFS
SITE	7	PW PESTICIDE RINSE AREA	RVFS
SITE	12	MINI-DECK	RVFS
SITE	13	ARMITAGE FIELD	RVFS
SITE	14	ARMITAGE FIELD LEACH POND	RVFS
SITE	15	MICHELSON LAB DRAINAGE	RVFS
SITE	16	SHORT RD LNDFL	RVFS
SITE	22	OILY WASTE DISP AREA	RVFS
SITE	27	EA RANGE SEPTIC SYS	RVFS

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

Site Name		Description	Project
SITE	29	R RANGE SEPTIC SYS	RI/FS
SITE	31	G-2 RANGE SEPTIC SYS	RI/FS
SITE	32	PILOT PLANT RD LANDFILL	RI/FS
SITE	34	NAF DISP. AREA	RI/FS
SITE	40	GOLF COURSE PESTICIDE RINSE	RI/FS
SITE	41	LNDFL	RI/FS
** NWIRP DALLAS, TX (NAVY)			
SITE	1	E. DRAINAGE LAGOON	RI/FS
SITE	2	W. OIL BURNER & DRUM AREA	RI/FS
SITE	4	IND SLUDGE DRUM STOR.	RI/FS
SITE	5	WASTE POL SPILL	RI/FS
SITE	6	FORMER ACID NEUT. PIT	RI/FS
SITE	7	IWC PIPELINE LEAK	RI/FS
SITE	8	FORMER REFUSE BURN PIT	RI/FS
SITE	9	FIREBRICK BURIAL SITE	RI/FS
SITE	10	W. DRAINAGE LAGOON	RI/FS
** NWS CHARLESTON, SC (NAVY)			
SITE	1	OLD SOUTH SIDE PESTICIDE RINSE AREA	RI/FS
SITE	3	SOUTH SIDE LNDFL	RI/FS
SITE	4	NORTH SIDE LNDFL	RI/FS
SITE	5	NORTH SIDE BURN AREA	RI/FS
SITE	6	S. ANNEX WASTE DISPOSAL AREA	RI/FS
SITE	7	S. ANNEX MUNITIONS DISPOSAL	RI/FS
SITE	8	PCP DIP TANK AT BLDG 88	RI/FS
** NWS CONCORD, CA (NAVY)			
SITE	1	TIDAL AREA LANDFILL	RI/FS
SITE	2	COKE PILE SITE	RI/FS
SITE	3	BURNING AREA	RI/FS
SITE	4	KINNE BLVD WELLS	RI/FS
SITE	5	BLACK PIT AT RED ROCK	RI/FS
SITE	6	K 2 AREA	RI/FS
SITE	9	G-1 AREA	RI/FS
SITE	11	R AREA DISPOSAL SITE	RI/FS
SITE	13	KLN SITE	RI/FS
SITE	14	ALLIED SITE A	RI/FS
SITE	16	ALLIED SITE B	RI/FS
SITE	25	FROID AND TAYLOR RD DISPOSAL	RI/FS
SITE	26	WOOD HOGGER	RI/FS
** NWS EARLE COLTS NECK, NJ (NAVY)			
SITE	1	ORDNANCE DEMILITARIZATION SITE	RI/FS
SITE	2	LANDFILL SW OF "F"	RI/FS
SITE	3	LANDFILL WEST OF "D"	RI/FS
SITE	4	LANDFILL WEST OF ARMY BRIGADE	RI/FS
SITE	5	UNNAMED TRIBUTORS	RI/FS
** NWS SEAL BEACH, CA (NAVY)			
SITE	1	WW SETTLING POND	RI/FS
SITE	2	OIL ON ROADS	RI/FS

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
 INSTALLATION RESTORATION PROGRAM
 (FY 86)**

Site Name		Description	Project
SITE	4	BATTERY SHOP DRAINAGE	RI/F5
SITE	6	OIL ISLAND	RI/F5
SITE	7	BLDG 437 QUENCH WATER DISPOSAL	RI/F5
SITE	19	EVAP. POND	RI/F5
SITE	19	BLDG 241 DISP. PIT	RI/F5
SITE	22	EXPLOSIVES BURNING GROUND	RI/F5
SITE	24	STATION LANDFILL	RI/F5
** NWSC CRANE, IN (NAVY)			
SITE	1	MINE FILL A AND B	RI/F5
SITE	2	BATTERY SHOP	RI/F5
SITE	3	BURNING PIT	RI/F5
SITE	4	DEMOLITION AREA	RI/F5
SITE	5	ORDNANCE BURNING GROUNDS	RI/F5
SITE	7	DYE BURIAL GROUNDS	RI/F5
SITE	8	LOAD AND FILL AREA	RI/F5
SITE	9	CAST HIGH EXPLOSIVES FILL	RI/F5
SITE	10	LOAD AND FILL POND	RI/F5
SITE	12	MCCORMISH GROGE	RI/F5
SITE	13	PESTICIDE SHOP 8-2189	RI/F5
SITE	14	ROADS AND GROUNDS AREA	RI/F5
SITE	15	ROCKEYE	RI/F5
** PMTC POINT MUGU, CA (NAVY)			
SITE	1	OLD SHOPS AREA	RI/F5
SITE	2	PUBLIC WORKS STOR YARD	RI/F5
SITE	3	OLD "S AREA" SHOPS	RI/F5
SITE	4	BLDG 311 YARD	RI/F5
SITE	5	ELECTRIC SUBSTATION 680	RI/F5
SITE	6	MAIN BASE FIRE SCHOOL	RI/F5
SITE	7	LAGOON AND DRAINAGE DITCHES	RI/F5
SITE	8	LAGOON LANDFILL	RI/F5
SITE	11	FUEL FARM	RI/F5
** PWC GUAM, GU (NAVY)			
SITE	2	PCB TRANSFORMER FILTER AREA	RI/F5
** PWC NORFOLK, VA (NAVY)			
SITE	4	P-71 TRANSFORMER STORAGE AREA	RI/F5

**AIR
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**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
 INSTALLATION RESTORATION PROGRAM
 (FY 86)**

Site Name	Description	Project
** AFP NO.36, EVANDALE, OH (AF)		
SITE 1	UNDERGROUND FUEL LEAK NW OF BLDG B	RA
SITE 2	FUEL SPILL	RA
** AFP NO.38, NY (AF)		
SITE 1	SALVAGE YARD	RI/FS
SITE 2	WASTE SITE 1	RI
SITE 3	WASTE SITE 2	RI
SITE 4	WASTE SITE 3	RI
SITE 5	WASTE SITE 4	RI/FS
SITE 6	HAZARDOUS WASTE POND	RI
SITE 7	DRAINAGE DITCH	RI
SITE 8	DAM	RI
** AFP NO.4, FT. WORTH, TX (AF)		
SITE 1	LANDFILL 1	RA
SITE 2	LANDFILL 2	RA
SITE 3	LANDFILL 3	RA
SITE 4	LANDFILL 4	RA
SITE 5	FDTA 2	RA
SITE 6	FDTA 3	RA
SITE 7	FDTA 4	RA
SITE 8	FDTA 5	RA
SITE 9	FDTA 6	RA
SITE 10	CHROME PIT 1	RA
SITE 11	CHROME PIT 2	RA
SITE 12	CHROME PIT 3	RA
SITE 13	DYE PITS	RA
SITE 14	FUEL SATURATED AREA 1	RA
SITE 15	FUEL SATURATED AREA 2	RA
SITE 16	FUEL SATURATED AREA 3	RA
SITE 17	FORMER FUEL STORAGE	RA
SITE 18	SOLVENT LINES	RA
SITE 19	NARF AREA	RA
SITE 20	WASTEWATER COLLECTION BASINS	RA
** AFP NO.4, FT.WORTH, TX (AF)		
SITE 21	WEST COMPASS ROSE	RA
SITE 22	"WINDOW" EAST CORNER OF BASE	RA
** AFP NO.44, AZ (AF)		
SITE 1	FORMER DISPOSAL TRENCHES	RA
SITE 2	FORMER BURN/DISPOSAL PIT	RA
SITE 3	FORMER WASTE DISPOSAL PITS	RA
SITE 4	FORMER WASTE WATER PONDS	RA
SITE 5	FORMER SLUDGE DRYING	RA
SITE 6	UNLINED DITCHES	RA
SITE 7	NORTH FIRE TRAINING AREA	RA
SITE 8	SOUTH FIRE TRAINING AREA	RA
SITE 9	SUBSURFACE PLUME	RA
SITE 10	WEST FIRE TRAINING AREA	RA

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

Site Name	Description	Project
SITE 11	DIESEL TANK LEAK	RA
SITE 14	WASTE OIL SPREADING	RA
** AFP NO.59, JOHNSON CITY, NY (AF)		
SITE 1	SOUTHSIDE (Z)	RI
SITE 2	ZONE 1 DRUM STORAGE AREA	RI
SITE 3	CHOCANUT CREEK	RI
** AFP PJKS WATERTON, CO (AF)		
SITE 1	SUSPECTED LANDFILL	RI
SITE 2	DRAINAGE FLUMES	RI
SITE 3	T-8A CONTAMINATION POND	RI
SITE 4	EPL BLDG T-6	RI
SITE 5	HYDRAZINE SPILL	RI
SITE 6	DEISEL TANK T-23	RI
SITE 7	D-1 LANDFILL	RI
SITE 8	TEST FAC. STORAGE	RI
SITE 9	NO. 6 DIESEL FUEL BELOW D-1	RI
** ALASKAN DEWLINE, AK (AF)		
SITE 1	BAR-M 1	RI
SITE 2	BAR M 2	RI
SITE 3	BAR M 3	RI
SITE 4	BAR M 4	RI
SITE 8	BAR M 8	RI
SITE 9	BAR M 9	RI
SITE 12	BAR M 12	RI
SITE 13	POW-3	RI
SITE 16	POW-Z 16	RI
SITE 17	POW-Z 17	RI
SITE 20	POW-Z 20	RI
SITE 25	POW-1 25	RI
SITE 28	POW-1 28	RI
SITE 29	POW-1 29	RI
SITE 31	POW-1 31	RI
SITE 32	POW-1 32	RI
SITE 37	LIZ-3 37	RI
SITE 38	LIZ-3 38	RI
SITE 39	LIZ-3 39	RI
SITE 40	LIZ-2 40	RI
SITE 43	LIZ-2 43	RI
SITE 44	LIZ-2 44	RI
** ALTUS AFB, OK (AF)		
SITE 1	INDUSTRIAL WASTE LAGOON(AGE WASHRACK)	RI
SITE 2	FPA 1	RI
SITE 3	AIRCRAFT WASHRACK POND	RI
SITE 5	FTA 2	RI
SITE 6	FTA 3	RI
SITE 7	FTA4	RI
SITE 8	LF 1	RI
SITE 9	LF 2	RI

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
 INSTALLATION RESTORATION PROGRAM
 (FY 86)**

Site Name	Description	Project
SITE 10	LF 3	RI
** ANDERSEN AFB, GU (AF)		
SITE 1	SITE 1 CHEMICAL DISPOSAL	RI
SITE 2	RMW CENTRAL SOIL	RI
SITE 3	DRUM STORAGE AREA	RI
SITE 4	SITE 2 CHEMICAL DISPOSAL	RI
SITE 5	SITE 3 CHEMICAL DISPOSAL	RI
SITE 6	SITE 4 CHEMICAL DISPOSAL	RI
SITE 7	DRAINAGE STORAGE AREA 2	RI
SITE 8	HAZARDOUS WASTE STORAGE AREA 1	RI
SITE 9	FTA 1	RI
SITE 10	FIREFIGHTER TRAINING AREA 2	RI
SITE 11	LANDFILL 1	RI
SITE 12	LANDFILL 10	RI
SITE 13	LANDFILL 13	RI
SITE 14	LANDFILL 16	RI
SITE 15	LANDFILL 2	RI
SITE 16	LANDFILL 22	RI
SITE 17	LANDFILL 25	RI
SITE 18	LANDFILL 3	RI
SITE 20	ZONE 1 STORMWATER DRAINAGE SYSTEM	RI
SITE 21	ZONE 2 STORMWATER DRAINAGE SYSTEM	RI
SITE 23	ZONE 3 STORMWATER DRAINAGE SYSTEM	RI
** ANDREWS AFB, MD (AF)		
SITE 1	FPA 1	RI
SITE 2	FPA 2	RI
SITE 3	FT-4	RI
SITE 4	SP-2	RI
SITE 5	D-1	RI
SITE 6	D-3	RI
SITE 7	SP-5	RI
SITE 8	DP-1	RI
SITE 9	SP-4	RI
SITE 10	SP-3	RI
SITE 11	WAP-1	RI
SITE 12	SP-6	RI
SITE 13	D-4	RI
SITE 14	SP-8	RI
** ARNOLD AFB, TN (AF)		
SITE 1	LANDFILL 2 LEACHATE PIT 2	R/VD
SITE 2	J-4 RETENTION RESVR AREA SURFACE DRAINAGE	RI
SITE 3	LANDFILL 4	RI
SITE 4	SURFACE DRAINAGE BRADLEY	RI
SITE 5	SURFACE DRAINAGE ROLLINS	RI
SITE 6	CAMP FORREST WATER TREATMENT PLANT	RI
SITE 7	AEDC TESTING AREA	RI
SITE 8	LEACHING PIT NUMBER 1	RI
SITE 9	SURFACE DRAINAGE BRUMALOW	RI
SITE 10	PROTECTION AREA 2/BURN AREA 2/LF 1	RI/RA

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

Site Name	Number	Description	Project
SITE	11	CHEMICAL TREATMENT POND	RI
SITE	12	RETENTION LEACH/BURN AREA	RI
SITE	13	FPTA 1	RI
SITE	14	SURFACE DRAINAGE CRUMPTON	RI
SITE	15	PEF BURN/BURIAL AREA	RI
SITE	16	BERYLLIUM LEACHING PIT	RI
SITE	17	BURN AREA 2	RI
** BEALE AFB, CA (AF)			
SITE	1	DISCHARGE AREA 3	RI
SITE	2	LANDFILL 3	RI
SITE	3	DISCHARGE AREA 1	RI
SITE	4	PHOTO WWTP	RI
SITE	5	PHOTO WASTE INJ. WELL	RI
SITE	6	FPTA 1&2	RI
SITE	7	BATTERY SHOP DRY WELL	RI
SITE	8	DISCHARGE AREA 3	RI
SITE	9	LANDFILL 2	RI
SITE	10	DISCHARGE AREA 4	RI
SITE	11	DISCHARGE AREA 6	RI
SITE	12	DISCHARGE AREA 9	RI
SITE	13	DISCHARGE AREA 5	RI
SITE	14	DISCHARGE AREA 7	RI
SITE	15	DISCHARGE AREA 10	RI
SITE	16	LANDFILL 1	RI
SITE	17	ORDINANCE DISPOSAL	RI
SITE	18	BEST SLOUGH	RI
SITE	19	POL TANK FARM	RI
** BERGSTROM AFB, TX (AF)			
SITE	1	LANDFILL 3	RI
SITE	2	LANDFILL 4	RI
SITE	3	FTA 23	RI/FS
SITE	4	LANDFILL 5	RI
SITE	5	LANDFILL 6	RI
SITE	6	LANDFILL 7	RI
SITE	7	JP-4 SPILL/OPEN PIPELINE	RI
SITE	8	ROAD OILING	RI
SITE	9	MOGAS SPILL AT MOTOR POOL	RI
SITE	10	SOUTH FORK DRAINAGE DITCH	RI
** BIRMINGHAM ANG, AL (AF)			
SITE	1	S 1	RI/FS
SITE	2	S 2	RI/FS
SITE	3	S 3	RI/FS
SITE	4	S 4	RI/FS
** BOISE, ID (AF)			
SITE	1	FIRE TRAINING AREA NO. 1	RI/FS
SITE	2	FIRE TRAINING AREA NO. 2	RI/FS
SITE	3	FORMER FENCE POST PRESERVING OPERATION	RI/FS
SITE	4	TAR PIT AREA	RI/FS

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
 INSTALLATION RESTORATION PROGRAM
 (FY 86)**

Site Name		Description	Project
** BROOKS, TX (AF)			
SITE	1	PCB TRANSFORMER OIL CONTAM. BLDG 100	RA
** BUCKLEY ANG, CO (AF)			
SITE	1	FIRE TRAINING AREA NO. 1	RI/FS
SITE	2	FIRE TRAINING AREA NO. 2	RI/FS
SITE	3	FIRE TRAINING AREA NO.3	RI/FS
SITE	4	FIRE TRAINING SITE 5	RI/FS
SITE	5	JP-4 SUSPECTED UNDERGROUND LINE LEAK	RI/RA
SITE	6	BASE DUMP/IN A ZONE W/OIL PIT	RI/FS
** BYRD ANG, VA (AF)			
SITE	1	S 1	RI/FS
SITE	2	S 2	RI/FS
SITE	3	S 3	RI/FS
SITE	4	S 4	RI/FS
SITE	5	S 5	RI/FS
** CAMPION LRRS, AK (AF)			
SITE	1	LANDFILL 1	RI/RA
SITE	2	LANDFILL 2	RI/RA
SITE	3	SPILL 1	RI/RA
SITE	4	LRRS	RI/RA
SITE	5	WASTE ACCUMULATION 1	RI/RA
SITE	6	WASTE ACCUMULATION 2	RI/RA
SITE	7	WHITE ALICE SITE	RI/RA
** CANNON AFB, NM (AF)			
SITE	1	ENTOMOLOGY RINSE AREA	RI
** CAPE CANAVERAL, FL (AF)			
SITE	1	LANDFILL 1	RI
SITE	2	LANDFILL 2	RI
SITE	3	CHEMICAL DISPOSAL 9	RI
SITE	4	CHEMICAL DISPOSAL 6	RI
SITE	5	CHEMICAL DISPOSAL 7	RI
SITE	6	CHEMICAL DISPOSAL 2	RI
SITE	7	CHEMICAL DISPOSAL 12	RI
SITE	8	FUEL SPILL	RI
SITE	9	FDTA 1	RI
SITE	10	FDTA 2	RI
** CAPE NEWENHAM, AK (AF)			
SITE	1	WASTE ACCUMULATION AREA 2	RA
SITE	3	DUMP AREA	RA
SITE	4	ROAD OILING	RA
SITE	5	WASTE ACCUMULATION 3	RA
SITE	6	LANDFILL 1	RA
SITE	7	WHITE ALICE SITE	RA
** CASTLE AFB, CA (AF)			
SITE	1	TCE	RI

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

Site Name	Site No.	Description	Project
SITE	2	LF 1	RI/RA
SITE	3	FPTA 1	RI
SITE	4	FUEL SPILL 1	RI
SITE	5	FUEL SPILL 4	RI
SITE	6	FPTA 2	RI
SITE	7	TCE SITE 5	RI
SITE	8	TCE SITE 7	RI
SITE	9	FUEL SPILL 2&3	RI
SITE	10	FPTA 3	RI
SITE	11	LANDFILL 2	RI
SITE	12	LANDFILL 3	RI
SITE	13	LANDFILL 4	RI
SITE	14	LANDFILL 5	RI
SITE	15	DISCHARGE AREA 1	RI/RA
SITE	16	DISCHARGE AREA 2	RI
SITE	16	DISCHARGE AREA 3	RI
SITE	17	DISCHARGE AREA 4	RI/RA
SITE	18	DISCHARGE AREA 5	RI
SITE	19	DISCHARGE AREA 6	RI
SITE	20	DISCHARGE AREA 7	RI
SITE	21	DISCHARGE AREA 8	RI/RA
SITE	22	PCB SPILLS 1,2,AND 3	RI
SITE	23	PCB SPILL 4	RI
SITE	24	PCB SPILL 5	RI
SITE	25	PCB SPILL 6	RI
SITE	26	PCB SPILL 7	RI
SITE	27	PCB SPILL 8	RI
SITE	28	TCE SITE 1	RI
SITE	29	CHEMICAL DISPOSAL PIT NO. 4	RI
** CHANUTE AFB, IL (AF)			
SITE	1	LANDFILL 1	FS
SITE	2	LANDFILL 2	FS
SITE	3	SLUDGE PIT BLDG 932	FS
SITE	4	FPTA 1	FS
SITE	5	FPTA 2	FS
SITE	6	LANDFILL 3	FS
SITE	7	LANDFILL 4	FS
SITE	8	BLDG 2306	FS
SITE	9	BLDG 505	FS
SITE	10	BLDG 937	FS
SITE	11	BLDG 502	FS
SITE	12	BLDG 760	FS
SITE	13	BLDG 51	FS
SITE	14	BLDG 349	FS
SITE	15	BLDG 53	FS
** CHARLESTON AFB, SC (AF)			
SITE	2	CONTAMINATED LAGOON	RA
SITE	20	BURIED AREA	RA
** CLEAR AFB, AK (AF)			
SITE	1	PAST LANDFILL	LTM

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
 INSTALLATION RESTORATION PROGRAM
 (FY 86)**

Site Name		Description	Project
SITE	2	PAST LANDFILL	LTM
SITE	3	CURRENT LANDFILL	LTM
SITE	4	#4 LANDFILL PRIOR TI 1959	LTM
SITE	5	COAL STORAGE	LTM
SITE	6	LEACHATE FIELD SEPTIC TANK	LTM
SITE	7	FUEL SPILL	LTM
SITE	8	STORAGE TANKS-LUST	LTM
SITE	10	RADIOACTIVE MATERIAL STORAGE YARD	LTM
SITE	11	FDTA	LTM
SITE	13	PARTIALLY FILLED DRUMS	LTM
SITE	14	CONSTRUCTION CAMP DISPOSAL AREA	LTM
** COLD BAY LRRS, AK (AF)			
SITE	1	SPILL	RI
SITE	2	LANDFILL	RI
SITE	3	ROAD OILING	RI
SITE	4	LRR	RI
** DANNELLY FIELD ANG, AL (AF)			
SITE	1	S 1	RVFS
SITE	2	S 2	RVFS
SITE	3	S 3	RVFS
SITE	4	S 4	RVFS
SITE	5	S 5	RVFS
** DAVIS MONTHAN AFB, AZ (AF)			
SITE	1	FLUSH FARM DRAINAGE DITCH	RI
** DES MONES ANG, IA (AF)			
SITE	1	OLD FITE TRAINING AREA	RI
SITE	2	NEW FIRE TRAINING AREA & NO. RUNWAY DRAI	RI
SITE	3	FACILITY 105 VEH. MAINT. FUEL TANK	RI
SITE	5	VEHICLE MAINT. FUEL TANK EXCAVATION	RI
** DOVER AFB, DE (AF)			
SITE	1	DD-1	RA
SITE	2	T-1	RA
SITE	4	D-4	RA
** DULUTH IAP, MN (AF)			
SITE	1	RD-1 LOW LEVEL RADIOACTIVE WASTE	RI
SITE	2	#5	RI
SITE	3	#6	RI
SITE	4	#7	RI
SITE	5	#9	RI
SITE	6	S-2 DPOD STORAGE AREA C	RI
** DYESS, TX (AF)			
SITE	1	UNDERGROUND RAILROAD TANK CAR	RA
** EDWARDS AFB, CA (AF)			
SITE	1	TRENCHES AND PITS	RA

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

Site Name	Site No.	Description	Project
SITE	2	BLDG 1404 LEAKING FUEL TANKS	RI/FS
SITE	3	BLDG 1928	RI/FS
SITE	14	MAIN BASE TOXIC WASTE DISPOSAL	RI/RA
SITE	17	ABANDONED MAIN BASE SANITARY LANDFILL	RI/RA
SITE	18	ACTIVE MAIN BASE SANITARY LANDFILL	RI/RA
SITE	19	SOUTH BASE WASTE POL STORAGE PIT	RI/RA
SITE	20	BERYLLIUM CONTAMINATED EARTH PILE	RI
SITE	21	INDUSTRIAL WASTE POND	RI
SITE	21	NPL AREA (ROCKETDYNE AREA)	RI
SITE	22	RPL SANITARY LANDFILL	RI
SITE	23	FPTA	RI
SITE	24	SOUTH BAE AREA	RI
SITE	25	JP 4 FUEL LINE	RI
SITE	26	BLDG 1836	RI
SITE	28	DRUM STORAGE SUBSITE 1B	RI
SITE	28	ACID PIT SUBSITE 1C	RI
SITE	30	DRUM TRECHES SUBSITE 1D	RI
SITE	31	DEBRIS QUMP SUBSITE 1E	RI
SITE	32	BLDG 1062 UNDERGROUND MOGAS STORAGE	RI
SITE	33	ABANDONED TANKS	RI

**** EGLIN AFB, FL (AF)**

SITE	1	A 20	RI
SITE	2	O9	RI
SITE	3	T3	RI/RA
SITE	4	HERD FACILITY	RI
SITE	5	HOBBY SHOP	RI
SITE	6	FIRE TRAINING AREA	RI
SITE	7	FIRE TRAINING AREA DUKE	RI
SITE	8	FIRE TRAINING AREA EGLIN FIELD	RI
SITE	9	MOTOR POOL CONTAMINATION	RI
SITE	10	HURLBURT FIELD SANITARY LANDFILL	RI
SITE	11	T1 HERBICIDE TEST GRID	RI
SITE	12	D 1 EGLIN MAIN LANDFILL	RI
SITE	13	D 2 EGLIN MAIN LANDFILL	RI
SITE	14	D 3 EGLIN MAIN LANDFILL	RI
SITE	15	FIELD 2 NORTH LANDFILL	RI
SITE	16	D 17 FIELD 2 DRUM DISPOSAL AREA	RI
SITE	17	C 4 DISPOSAL PIT NEAR SKEET RANGE	RI
SITE	18	A 19 DRUM DISPOSAL AREA	RI
SITE	19	RECIEVER AREA LANDFILL	RI
SITE	20	D 18 LANDFILL	RI
SITE	21	D 26 LANDFILL	RI
SITE	22	D 29 LANDFILL	RI
SITE	23	D 30 LANDFILL	RI
SITE	24	D 31 LANDFILL	RI
SITE	25	D 32 LANDFILL	RI

**** EIELSON AFB, AK (AF)**

SITE	1	ORIG BASE LNDFL	RI
SITE	2	OLD BASE LNDFL	RI
SITE	3	CURRENT BASE LNDFL	RI

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
 INSTALLATION RESTORATION PROGRAM
 (FY 86)**

Site Name	Description	Project
SITE 4	FDTA (PAST)	RI
SITE 5	FDTA (PRESENT)	RI
SITE 6	E-2 POL STOR.	RI
SITE 8	FUEL SATURATED AREA	RI
SITE 9	E-4 DIESEL FUEL SPILL	RI
SITE 10	MULTIPURPOSE FUEL LINE	RI
SITE 11	MOGAS FUEL SPILL	RI
SITE 13	CANOL PIPELINE SPILL	RI
SITE 14	FUEL SATURATED AREA, OLD BOILER	RI
SITE 15	JP-4 FUEL LINE SPILL	RI
SITE 16	REFUELING LOOP	RI
SITE 17	SEWAGE TREATMENT SPILL POND	RI
SITE 18	ASPHALT MIXING AREA	RI
SITE 19	DRUM STORAGE SITE, ASPHALT MIXING AREA	RI
SITE 20	WASTE POL PIT	RI
SITE 21	ASPHALT LAKE	RI/RA
SITE 22	AUTO HOBBY SHOP	RI
SITE 23	OLD ARMY EOD AREA	RI
SITE 24	OLD ARMY LNDFL	RI/RA
SITE 25	OLD LNDFL	RI
SITE 26	E-2 RAILROAD JP-4 SPILL	RI
SITE 27	OILING QUARRY RD	RI
SITE 28	DRUM STORAGE ASPHALT MIXING	RI
SITE 29	OILING IND. DR	RI
SITE 32	OILING MANCHU RD	RI
SITE 34	OILING GRAVEL HAUL RD	RI
SITE 35	E-6 FUEL TANK SLUDGE	RI
SITE 36	E-10 FUEL TANK SLUDGE	RI
SITE 37	E-11 FUEL TANK SLUDGE	RI
SITE 38	DRUM BURIAL SITE	RI/RA
SITE 39	SLUDGE DRYING BEDS	RI
SITE 41	MISC. DISP. AREA	RI
** ELLINGTON ANG, TX (AF)		
SITE 1	POL TANK FARM	RI/FS
SITE 2	FORMER BASE LANDFILL	RI/FS
** ELMENDORF AFB, AK (AF)		
SITE 1	IS-8	RI
SITE 2	C4	RI
SITE 4	IS-2	RI
SITE 5	D-16	RI
SITE 6	IS-3	RI
SITE 7	IS-4	RI
SITE 8	IS-5	RI
SITE 9	SP-6	RI
SITE 10	43-450	RI
SITE 11	SP-1	RI
SITE 12	SP-4	RI
SITE 13	D-13	RI
SITE 14	SP-13	RI
SITE 15	D-3	RI

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
 INSTALLATION RESTORATION PROGRAM
 (FY 86)**

Site Name	Description	Project
SITE 16	SP-5	RI
SITE 17	D-5	RI
SITE 18	SP 7	RI
SITE 20	SP 11	RI
SITE 21	S-6	RI
SITE 23	D-7	RI
SITE 24	FT 1	RI
SITE 25	SP 2	RI
SITE 27	IS 1	RI
SITE 28	SP 15	RI
SITE 29	IS 7	RI
SITE 30	BLOG 11 435	RA
SITE 31	SP 14	RI
SITE 31	D-10	RI
SITE 32	D 17	RI
SITE 33	D 17	RI
SITE 33	D 5 POL SLUDGE	RI
SITE 34	BLOG 22 009 HAZ MAT STOR	RI
SITE 35	FIRE ISLAND	RI
** ENGLAND AFB, LA (AF)		
SITE 4	D 15 POL SLUDGE WEATHERING PIT	RI
** E.E. WARREN AFB, WY (AF)		
SITE 1	BLOG 400 MOGAS SPILL	RI
SITE 2	ACID DRY WELL WEST OF BLOG 826	RI/RA
SITE 3	BLOG 810 SPILL	RI
SITE 4	BLOG 330 SPILL	RI
SITE 5	BLOG 1250 SPILL	RI
SITE 6	BLOG 336 SPILL	RI
SITE 7	LANDFILL 2	RI
SITE 8	LANDFILL 3	RI
SITE 9	LANDFILL 4	RI
SITE 10	LANDFILL 5	RI
SITE 11	LANDFILL 6	RI
SITE 12	BLOG 316 SPILL	RI
SITE 13	FPTA 1	RI
SITE 14	FPTA 2	RI
** FAIRCHILD AFB, WA (AF)		
SITE 1	PS 3	RI
SITE 2	PS 4	RI
SITE 3	PS 2	RI
SITE 4	OB 1	RI
SITE 5	DS 7	RI
SITE 6	PS 1	RI
SITE 7	IS-4	RI
SITE 8	FT 1	RI
SITE 9	IS 1	RI
SITE 10	SW 1	RI
SITE 11	SW 8	RI
SITE 12	WW 1	RI

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
 INSTALLATION RESTORATION PROGRAM
 (FY 86)**

Site Name		Descriptions	Projects
SITE	13	IS-3	RI
** FORT YUKON LRRS, AK (AF)			
SITE	1	WASTE ACCUMULATION	RI
SITE	2	ROAD OILING	RI
SITE	3	LANDFILL 1	RI
SITE	4	OIL DISCHARGE	RI
SITE	5	WHITE ALICE SITE	RI
SITE	6	LRRS	RI/RA
** PEWAYNE ANG, IN (AF)			
SITE	1	S 1	RI/FIS
SITE	2	S 2	RI/FIS
SITE	3	S 3	RI/FIS
SITE	4	S 4	RI/FIS
SITE	5	S 5	RI/FIS
** GALENA AIRPORT, AK (AF)			
SITE	1	SPILL 1	RI
SITE	2	SPILL 2	RI
SITE	3	SPILL 3	RI
SITE	4	FPTA	RI
SITE	5	WASTE ACCUMULATION	RI
SITE	6	SPILL/LEAK 4&5 AND POL TANK FARM	RI
** GEN. BILLY MITCHELL FIELD, WI (AF)			
SITE	1	FIRE TRAINING AREA	RI
SITE	2	H.W. STORAGE AREA	RI
SITE	3	POL AREA 71	RI
SITE	4	STORAGE AREA 2	RI
** GEORGE, CA (AF)			
SITE	1	DISPOSAL SITE	RI
SITE	2	RADIOACTIVE/TOXIC DISPOSAL	RI
SITE	3	STARTER CARTRIDGE DISPOSAL ARE	RI
SITE	4	STREET SWEEPING DIS.	RI
SITE	5	ORIGINAL BASE LANDFILL	RI
SITE	6	BASE LANDFILL	RI
SITE	7	M-2 MUNITIONS DISP	RI
SITE	8	IND. OUTFALL DITCH 6	RI
SITE	9	PEST. AND PAINT BURIAL	RI
SITE	10	ACID AND OIL BURIAL	RI
SITE	11	PEST. AND OIL BURIAL	RI
SITE	12	L-13 BASE LANDFILL	RI
SITE	13	S-4 FUEL AND OIL BURIAL	RI
SITE	14	S-5 FOTA	RI
SITE	15	S-6 ABANDONED FOTA	RI
SITE	16	S-19 TRANSFORMER STORAGE	RI
SITE	17	S-20 INDUST OUTFALL DTCH & STRM DRN	RI
SITE	18	S-21 STP PERCOLATION PONDS	RI
SITE	19	S-22 FRENCH DRAIN	RI
SITE	20	S-23 FRENCH DRAINS	RI

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

Site Name	Site	Description	Project
	SITE 21	S-25 SLUDGE DRYING BEDS	RI
** GOODFELLOW AFB, TX (AF)			
	SITE 1	DRUM STORAGE	RI
	SITE 2	SOUTH LANDFILL	RI
	SITE 3	SOUTHEAST LANDFILL	RI
	SITE 4	FUEL STORAGE AREA	RI
** GRANITE MOUNTAIN, AK (AF)			
	SITE 1	WASTE ACCUMULATION	RA
** GREATER PITTSBURGH IAP, PA (AF)			
	SITE 5	A-7 WASTE OIL TANKS	RVRA
	SITE 11	MOTOR POOL AREA	RVRA
** GREATER WILMINGTON ANG, DE (AF)			
	SITE 1	AREA ADJCT TO POL PUMPHOUSE BLDG 2701	RVFS
	SITE 2	AREA DOWN GRADE OF REFUELER PARKING AREA	RVFS
	SITE 3	SOUTH AND WEST EDGE OF AC PARKING AREA	RVFS
	SITE 4	SE DRAINAGE DITCH	RVFS
** GRIFFISS AFB, NY (AF)			
	SITE 1	CONTAMINATED SOIL FOA	FS
	SITE 2	BLDG 210	RI
	SITE 3	THREE MILE CREEK	FS
	SITE 4	BULK FUEL STORAGE AREA	RA
	SITE 6	BLDG 26 UST	RI
	SITE 7	CONTAMINATED AREA NEAR T9	RI
	SITE 8	UT AT NEWPORT AREA	RI
** HANCOCK FIELD, NY (AF)			
	SITE 1	D-1 DISPOSAL SITE	RI
	SITE 2	D-3 DISPOSAL SITE	RI
	SITE 3	D-5 DISPOSAL SITE	RI
	SITE 4	FT-1 FIRE TRAINING AREA	RI
	SITE 5	S-1 TRANSFORMER STORAGE AREA	RI
	SITE 6	S-3 ENTOMOLGY UNDERGROUND STORAGE	RI
	SITE 7	SP-1 OLD SPILL SITE	RI
	SITE 8	UNOFFICAL DUMP SITE	RI
	SITE 9	DRAINAGE/POND SWAMP	RI
** HANSCOM AFB, MA (AF)			
	SITE 1	FIRE TRAINING 1	RI
	SITE 2	AAFES SERVICE STATION GASOLINE LEAK	RI
	SITE 3	FIRE TRAINING 4	RI
	SITE 4	PAINT WASTE DISPOSAL	RI
	SITE 5	JET FUEL TANK SLUDGE	RI
	SITE 6	SANITARY LANDFILL	RI
	SITE 7	FORMER FILTER BED	RI
	SITE 8	IWT SYS	RI
	SITE 9	SCOTT CIRCLE LANDFILL	RI
	SITE 10	ADM BLDG JET FUEL SPILL	RI

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

Site Name		Description	Project
SITE	11	MERCURY SPILL	RI
SITE	12	VAR FUEL SPLS(RUNWY&TAXIWY)	RI
SITE	13	MOTOR POOL SPILL	RI
** HECTOR ANG, ND (AF)			
SITE	1	NW ORIENT FUEL OUTLET	RI/FS
SITE	2	BLDG 211 SPILL	RI/FS
SITE	3	WASTE STORAGE FACILITY	RI
SITE	4	BLDG 370 SPILL	RI/FS
SITE	5	FIRE TRAINING AREA	RI/FS
** HICKAM AFB, HI (AF)			
SITE	1	TRI-SERVICES LANDFILL	RI
SITE	5	CANAL STORM DRAINAGE SYSTEM	RI
SITE	7	SITE 22 KUMUNAU CANAL STORM DRAIN SYSTE	RI
SITE	9	SITE 23 MTR POOL STORM DRAIN SYS	RI
SITE	10	HICKAM SITE 7	RI
SITE	11	HICKAM SITE 13	RI
SITE	12	HICKAM SITE 14	RI
SITE	13	HICKAM SITE 15	RI
SITE	14	HICKAM SITE 19	RI
SITE	15	HICKAM SITE 1	RI
SITE	16	SITE 9 FUEL LEAK	RI
SITE	17	SITE 10 FUEL LEAK	RI
SITE	18	SITE 11 FUEL LEAK	RI
SITE	19	SITE 12 FUEL LEAK	RI
SITE	21	SITE 16 FUEL LEAK	RI
SITE	22	SITE 17 FUEL LEAK	RI
SITE	23	SITE 18 FUEL LEAK	RI
** HICKAM POL, HI (AF)			
SITE	1	KIPAPA POL SLUDGE DISPOSAL AND PIPE LEAK	RI
SITE	2	POL PIPELINE SITE 1	RI
SITE	3	POL PIPELINE SITE 10	RI
SITE	4	POL PIPELINE SITE 2	RI
SITE	5	POL PIPELINE SITE 3	RI
SITE	6	POL PIPELINE SITE 4	RI
SITE	7	POL PIPELINE SITE 5	RI
SITE	8	POL PIPELINE SITE 6	RI
SITE	9	POL PIPELINE SITE 8	RI
SITE	10	POL PIPELINE SITE 9	RI
SITE	11	POL PIPELINE LEAK 7	RI
SITE	12	WAINAKALGUA POL ENTIRE SITE	RI
SITE	13	STORAGE SPILL AREAS	RI
** HILL AFB, UT (AF)			
SITE	1	SODIUM HYDROXIDE SPILL	RI
SITE	2	BERMAN POND	RI/RA
SITE	3	IWTP DRYING BED	RI
SITE	4	MTN. DRYING BEDS	RI
SITE	5	LANDFILL 1	RI
SITE	6	LANDFILL 2	RI

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
 INSTALLATION RESTORATION PROGRAM
 (FY 86)**

Site Name	Site Number	Description	Project
SITE	7	LANDFILL 3	R/RA
SITE	8	LANDFILL 4	R/RA
SITE	9	LANDFILL 5	R/RA
SITE	10	HERBICIDE ORANGE TEST PLOT	RI
SITE	11	DISPOSAL PITS	RI
SITE	12	CHEMICAL DISPOSAL PIT 1	R/RA
SITE	13	CHEMICAL DISPOSAL PIT 2	R/RA
SITE	14	CHEMICAL DISPOSAL PIT 3	R/RA
SITE	15	PERIMETER ROAD	RI
SITE	16	SWAMP LEACH FEILD	RI
SITE	17	POND 3	RI
SITE	18	B22 UNDER GROUND TANKS	R/RA
SITE	19	US ARMY TOOELE RAIL SHOP	RI
SITE	30	SITE 3 LANDFILL	RI
SITE	31	SITE 4	RI
SITE	32	SITE 5	RI
SITE	33	SITE 6	RI
SITE	34	PCB BURN PIT	RI
SITE	35	SPOIL PIT	RI
SITE	36	FIRE TRAINING AREA 1	RI
SITE	36	GOLF COURSE	RI
SITE	37	BAMBERGER POND	RI
SITE	389	REFUELING AREA JP-4 FUEL SPILL	RI
SITE	39	CHEMICAL DISPOSAL PITS NOS. 1 AND 2	RA
SITE	40	SITE 2	RA
** HOLLOMAN AFB, NM (AF)			
SITE	1	OIL SPILLS AT AIRCRAFT WASH RACKS	LTM
SITE	5	SERVICE STATION FUEL LEAK	RI
** HULMAN ANG, IN (AF)			
SITE	1	OLD BLADDER AREA	R/FS
SITE	2	POWER SUPPRESSOR PAD	R/FS
SITE	3	VEHICLE BUILDING	R/FS
SITE	4	POL FILLSTAND AREA	R/FS
** INDIAN MOUNTAIN LRAS, AK (AF)			
SITE	3	LANDFILL 3.4 AND WASTE ACCUMULATION 4	R/RA
SITE	5	SPILL 2,5,6,7,9,10 AND WASTE ACC. 6	R/RA
SITE	11	LANDFILL 1	RI
SITE	12	WASTE ACCUMULATION AREA 1	R/RA
SITE	13	WASTE ACCUMULATION AREA 3 AND SPILL 4.11	R/RA
SITE	14	WASTE ACCUMULATION AREA 5	R/RA
SITE	15	ROAD OILING	RI
SITE	16	DUMP AREAS	RI
SITE	17	LANDFILL 2	RI
SITE	18	WHITE ALICE SITE	R/RA
** JACKSONVILLE ANG, FL (AF)			
SITE	1	AREA NEAR HEATING PLANT	R/FS
SITE	2	OWS INLETS AT DOWNGRADE END OF AC PARKIN	R/FS
SITE	3	GROUIND BENEATH 125TH FIG PARKING APRON	R/FS

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
 INSTALLATION RESTORATION PROGRAM
 (FY 86)**

Site Name		Description	Project
SITE	3	FIRE TRAINING AREA	RI/FS
SITE	5	OVERFLOWING OWS AT HUSH HOUSE	RI/FS
SITE	6	AREA NEAR OWS/VEH MAINT. BLDG	RI/FS
** JOE FOSS, SD (AF)			
SITE	1	UNDERGROUND STORAGE TANKS	RI/FS
SITE	2	FIRE TRAINING AREA TANKS	RI/FS
** KELLY AFB, TX (AF)			
SITE	1	SA-4	RI
SITE	2	GREEN WORM AREA	RI
SITE	3	600 AREA	RI
SITE	4	SA-2	RI/RA
SITE	5	IS-1	RI
SITE	6	S-6	RI
SITE	7	SA-3	RI
SITE	8	S-2	RI
SITE	9	S-7	RI
SITE	10	SD-2	RI
SITE	11	RD-1	RI
SITE	12	S-3	RI
SITE	13	D-6	RI
SITE	14	RD-2	RI
SITE	15	D-1	RI
SITE	16	FC-1	RI
SITE	17	FC-2	RI
SITE	18	D-4	RI
SITE	19	D-2	RI
SITE	20	S-1	RI
SITE	21	E-1	RI
SITE	22	S-4	RI
SITE	23	E-3	RI
SITE	24	SITE 4 COAL FLYASH DISPOSAL	RI
SITE	25	SITE 5 COAL FLYASH DISPOSAL	RI
SITE	25	SITE 7 ABANDONED FTA	RI
SITE	26	SITE 10 POL STORAGE AREA	RI
SITE	27	SECURITY FENCE AREA	RI
SITE	28	SITE D-3 LANDFILL	RI
SITE	29	SITE D-5 LANDFILL	RI
SITE	30	SITE D-7 LANDFILL	RI
SITE	31	SITE D-7 LANDFILL	RI
SITE	31	SITE D-10 TAR PIT	RI
SITE	32	SITE F-2 OIL EVAPORATION PIT	RI/FS
SITE	33	LIQUID WASTE INCINERATOR SITE	RI
SITE	34	SITE SA-2 SLUDGE SPREADING AREA	RI
SITE	35	LS-1 WASTE SITE	RI
SITE	36	E-3 OIL EVAPORATION PIT	FS
** KEY FIELD ANG, MS (AF)			
SITE	1	KINGSLEY SITES	RI
** KIRTLAND AFB, NM (AF)			
SITE	1		RD

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

Site Name	Description	Project
** LACKLAND, TX (AF)		
SITE	1 ABANDON UST 300 AREA	RI
SITE	2 ABANDON UST 400 AREA	RI
SITE	3 ABANDONED UST 100 AREA	RI
SITE	4 ABANDONED UST 700 AREA	RI
SITE	5 LOW LEVEL RADIOACTIVE DISP. 423	RI
SITE	6 LOW LEVEL RADIOACTIVE DISP 401	RI
SITE	7 LOW LEVEL RADIOACTIVE DISPOSAL 429	RI
SITE	8 LOW LEVEL RADIOACTIVE DISPOSAL 430	RI
SITE	9 LOW LEVEL RADIOACTIVE DISP. 444	RI
SITE	10 LOW LEVEL RADIOACTIVE DISP. 508	RI
SITE	11 FPTA 2	RI
SITE	12 FPTA NO.2	RI
SITE	13 LANDFILL 4	RI
SITE	14 EXPOSIVE ORDNANCE BURN PIT	RI
SITE	15 WASTE BURNING GROUNDS	RI
SITE	16 LEACHING AREA 466	RI
SITE	17 LEACHING AREA 7595	RI
** LANGLEY AFB, VA (AF)		
SITE	2 FUEL SATURATED AREA	RI/RA
** LAUGHLIN, TX (AF)		
SITE	1 SUPPLY STORAGE AREA	RI
SITE	2 SOUTH BOUNDRY DIKE	RI
SITE	3 DEFUEL PIT	RI
SITE	4 DPDO	RI
SITE	5 FIRE FIGHTING TRAINING AREA	RI
SITE	6 SLUDGE DISPOSAL AREA	RI
SITE	7 BASE LANDFILL	RI
SITE	8 NEW INDUSTRIAL WASTE POND	RI
SITE	9 OLD INDUSTRIAL WASTE POND	RI
** LITTLE ROCK, AR (AF)		
SITE	1 LANDFILL 2	RI
SITE	2 LANDFILL 1	RI
SITE	3 LANDFILL 3	RI
SITE	4 LANDFILL 4	RI
SITE	5 LANDFILL 5	RI
SITE	6 LANDFILL 6	RI
SITE	7 LANDFILL 7	RI
SITE	8 FPTA	RI
SITE	9 DISCHARGE PIT	RI
SITE	10 DRDO STORAGE	RI
SITE	11 POL FUEL SPILL	RI
SITE	12 BULK FUEL TANK FARM	RI
SITE	13 FLIGHT-LINE FUEL LEAKS	RI
SITE	14 FORMER CHEMICAL PLANT SITE	RI
SITE	15 GOLF COURSE AREA	FS
** LOS ANGELES, CA (AF)		
SITE	1 FUEL SPILL SITE	RI

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
 INSTALLATION RESTORATION PROGRAM
 (FY 86)**

Site Name*		Description*	Project*
SITE	2	PESTICIDE DISPOSAL SITE	FS
** LOWRY AFB, CO (AF)			
SITE	1	D-1	FS
SITE	2	FT-1	FS
SITE	3	S 2	FS
SITE	4	S 3	FS
SITE	5	S 5	FS
SITE	6	S 10	FS
SITE	7	FT-2	FS
SITE	8	SP-1	FS
SITE	9	D-2	FS
SITE	10	BLDG 1010	FS
SITE	11	FAC 369 ABANDONED UST	FS
SITE	12	FORMER SERVICE STATION 3EA ABANDONED UST	FS
SITE	13	POL STORAGE YARD 13EA ABANDONED UST	RI
** LUCE AFB, AZ (AF)			
SITE	1	WASTE TREATMENT ANNEX	RI
SITE	2	PERIMETER ROAD POL WASTE APPLICATIONS	RI
SITE	3	POL WASTE DISPOSAL TRENCH	RI
SITE	4	993	LTM
SITE	5	SOUTH FIRE TRAINING AREA	RI
SITE	6	NORTH FIRE TRAINING AREA	RI
** MACDILL AFB, FL (AF)			
SITE	4	FORMER FUEL STORAGE AREA	RD
SITE	5	LANDFILL AT DOG KENNEL	RI
SITE	7	LANDFILL AT CE WASHRACK	RI
SITE	8	LANDFILL AT EOD EAST	RI
SITE	9	LANDFILL AT EOD WEST	RI
SITE	10	WEST LANDFILL	RI
SITE	11	CURRENT LANDFILL	RI
SITE	12	CHEMICAL MUNITIONS BURIAL SITE	RI
SITE	13	CREOSOTE PIT	RI
SITE	14	FUEL TANK FARM	RI
SITE	15	DRUM STORAGE AREA	RI
SITE	16	FIRE TRAINING AREA	RI
SITE	17	FORMER FUEL STORAGE AREA NEXT TO AGE	RI
SITE	18	OLD LANDFILL	RI
SITE	19	AP7 CURRENT LANDFILL	RI
SITE	20	ARMY TEST SITE	RI
SITE	21	AP11 PESTICIDE RINSE AREA	RI
SITE	22	FORMER FUEL STORAGE AREA 2	RD
SITE	23	AVGAS SLUDGE WEATHERING 17	RI
** MALMSTROM, MT (AF)			
SITE	1	SITE B FORMER FUEL STORAGE AREA 2	RI
SITE	2	PS 3	RI
SITE	3	OS 2	RI
SITE	4	SW 4	RI
SITE	5	SW 5	RI

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
 INSTALLATION RESTORATION PROGRAM
 (FY 86)**

Site Name		Description	Project
SITE	6	SW-1	RI
SITE	7	OS-1	RI
SITE	8	IS-2	RI
SITE	9	OB-3	RI
SITE	10	SW-3	RI
SITE	11	PS-2	RI
SITE	12	PS-1	RI
SITE	13	WW-1	RI
SITE	14	IS-3	RI
SITE	15	FT-1	RI
SITE	16	PS-5	RI
SITE	17	IS-1	RI
SITE	18	PS-4	RI
SITE	19	SW-2	RI
SITE	21	OB-1	RI
** MARCH, CA (AF)			
SITE	1	UNCONFIRMED SOLVENT DISPOSAL	RI
SITE	2	LF 5	RI
SITE	3	LNOFL 3	RI
SITE	4	TCE CONTAMINATION	RI
SITE	5	TCE CONTAMINATION	RI
SITE	6	LNOFL 6	RI
SITE	7	FPTA 2	RI
SITE	8	AIRCRAFT ISO. AREA	RI
SITE	9	BULK FUEL STOR.	RI
SITE	10	WASTE OIL PIT	RI
SITE	11	MAIN OIL/WATER SEPERATION	RI
SITE	12	FLIGHTLINE DRAINAGE	RI
SITE	13	FLIGHT LINE SHOP	RI
SITE	14	CE STOR YO	RI
SITE	15	LNOFL 1	RI
SITE	16	MUNITIONS RESIDENCE BURIAL	RI
SITE	17	LANDFILL 2	RI
SITE	18	LANDFILL 7	RI
SITE	19	FPTA 1	RI
SITE	20	FPTA 3	RI
SITE	21	E SLUDGE DRYING BEDS	RI
SITE	22	W SLUDGE DRYING BEDS	RI
SITE	23	EFFLUENT POND	RI
SITE	24	CONDURE EFFLUENT POND	RI
SITE	25	SWIMMING POOL FILL	RI
SITE	26	LHO FUEL PUMP STATION OVERFLOW	RI
SITE	27	TANK TRUCK SPILL	RI
SITE	28	WTP SLUDGE	RI
SITE	29	ENGINE TEST CELL	RI
SITE	30	BLOG #22 POL TANKS	RI
SITE	33	BLOG #22 UNDERGROUND POL TANKS	RI
SITE	35	ZONE 1 MONITORING	RI
SITE	36	TCE CONTAM	RI
** MATHER AFB, CA (AF)			
SITE	1	DRAINAGE DITCH NO 3	RI

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

Site Name		Description	Project
SITE	2	OFF BASE WATER SUPPLY 3 RES.	RA
SITE	7	"7100" AREA DISPOSAL	RI
SITE	20	ACW SITE NPL-12	RI
** MCCORD, WA (AF)			
SITE	1	D5 LANDFILL/BURNING TRENCH	RI/FS
SITE	2	D7 BASE LANDFILL	RI/FS
SITE	3	D39 BASE LANDFILL/BURNING TRENCH	RI/FS
SITE	4	SITE 4 LANDFILL	RI
SITE	5	D6 BASE LANDFILL	FS
SITE	6	C54 LEACH PIT	RA
SITE	7	JP-4 SPILL SITES 34 AREA A	RA
SITE	8	SITE A2 BASE LANDFILL	RA
SITE	9	JP-4 SPILL SITES 46 AREA A	RA
SITE	10	SITE C37 POL SPILL/DISPOSAL	RA
SITE	11	C42 FUEL SPILL	RA
SITE	12	LEACH PIT C-57	RA
SITE	13	PROVIDE BOTTLED WATER TO ALG	RA
SITE	14	RINSATE DISPOSAL REIMBURSEMENT	RA
SITE	16	BURIAL PIT	RA
** MCCLELLAN, CA (AF)			
SITE	1	BURNING/BURIAL PIT AREA D	RI/RA
SITE	2	SLUDGE/OIL PIT AREA D	RI/RA
SITE	3	SLUDGE/BURNING/BURIAL PIT AREA D	RI/RA
SITE	4	SLUDGE/OIL PIT AREA D	RI/RA
SITE	5	SLUDGE/OIL SOLVENT BURN PIT AREA D	RI/RA
SITE	6	OIL BURN PIT AREA D	RI/RA
SITE	7	SLUDGE/OIL PIT AREA C	RI/RA
SITE	8	SLUDGE BURIAL PIT AREA C	RI/RA
SITE	9	BURIAL PIT AREA C	RI/RA
SITE	10	BURIAL PIT AREA C	RI/RA
SITE	11	BURIAL PIT AREA C	RI/RA
SITE	12	BURIAL PIT AREA C	RI/RA
SITE	13	BURIAL PIT PLUNG WASTE/SLUDGE AREA C	RI/RA
SITE	14	BURIAL PIT AREA C	RI/RA
SITE	15	SODIUM VALVE TRENCH AREA C	RI/RA
SITE	16	SODIUM VALVE TRENCH AREA C	RI/RA
SITE	17	BURIAL PIT AREA C	RI/RA
SITE	18	BURIAL PIT AREA C	RI/RA
SITE	19	BURIAL PIT AREA C	RI/RA
SITE	20	SLUDGE/OIL PIT AREA C	RI/RA
SITE	21	SLUDGE/OIL PIT AREA C	RI/RA
SITE	22	BURNING/BURIAL PIT AREA C	RI/RA
SITE	23	BURIAL PIT SW OF AREA C	RI/RA
SITE	24	BURNING/BURIAL PIT NEAR AREA B	RI/RA
SITE	25	BURIAL PIT AREA A	RI/RA
SITE	26	SLUDGE PIT AREA D	RI/RA
SITE	27	SODIUM VALVE TRENCH AREA D	RI/RA
SITE	28	CREEK DEBRIS SLUDGE PIT AREA C	RI/RA
SITE	29	SCRAP MATERIAL BURNER AREA C	RI/RA
SITE	30	1155TH SURFACE DISPOSAL SITE AREA B	RI/RA

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

Site Name	Description	Project
SITE 31	REFUSE INCINERATORS SOUTH OF AREA C	RI/RA
SITE 32	HAZARDOUS WASTE STORAGE AREA C	RI/RA
SITE 33	INDUSTRIAL SLUDGE LAND FARM AREA D	RI/RA
SITE 34	WASTE SOLVENT STORAGE TANKS AREA A	RI/RA
SITE 35	SCRAP METAL BURIAL PIT AREA B	RI/RA
SITE 36	DRUM STORAGE AREA B	RI/RA
SITE 37	BURIAL PIT AREA A	RI/RA
SITE 38	ENGINE REPAIR SHOP AREA A	RI/RA
SITE 39	BURNING/BURIAL PIT AREA A	RI/RA
SITE 40	INDUSTRIAL SLUDGE DRYING BEDS AREA A	RI/RA
SITE 41	BURIAL PIT AREA C	RI/RA
SITE 42	OIL/BURNING PITS AREA C	RI/RA
SITE 43	BURIAL PIT AREA C	RI/RA
SITE 44	SURFACE STORAGE AREA NORTH OF BASE	RI/RA
SITE 45	PAINT BURIAL PIT NORTH OF BASE	RI/RA
SITE 46	OLD SALVAGE YARD OPERATION AREA NORTH	RI/RA
SITE 47	BLDG 666 AREA B	RI/RA
SITE 48	WASTE TREATMENT AREA C	RI/RA
SITE 49	BURIAL PIT AREA C	RI/RA
SITE 50	SETTLING POND AREA C	RI/RA
SITE 51	SETTLING PONDS AREA C	RI/RA
SITE 52	BURIAL PIT AREA C	RI/RA
SITE 53	SETTLING POND AREA C	RI/RA
SITE 54	SURFACE SITE AREA C	RI/RA
SITE 55	SURFACE SITE AREA C	RI/RA
SITE 56	SURFACE SITE AREA C	RI/RA
SITE 57	PIT AREA C	RI/RA
SITE 58	BURIED TANK AREA C	RI/RA
SITE 59	BURIED TANK AREA C	RI/RA
SITE 60	PONDS AREA C	RI/RA
SITE 61	ACID PIT AREA C	RI/RA
SITE 62	CYANIDE PIT AREA C	RI/RA
SITE 63	DITCH AREA C	RI/RA
SITE 65	DITCH AREA C	RI/RA
SITE 66	WASTE POND AREA C	RI/RA
SITE 67	WASTE PIT AREA C	RI/RA
SITE 68	SLUDGE POND	RI/RA
SITE 69	WASTE PIT AREA C	RI/RA
** MCENTIRE ANG, SC (AF)		
SITE 2	FPTA 5	RI
SITE 3	OIL DUMP SITE	RI
SITE 4	C141 SPILL AREA	RI
SITE 5	4Y WASTE STORAGE FAC. AREA STORAGE	RI
** MCGUIRE, NJ (AF)		
SITE 1	FIRE PROTECTION TRAINING AREA 1	RI
SITE 2	FIRE PROTECTION TRAINING AREA 2	RI
SITE 3	FIRE PROTECTION TRAINING AREA 3	RI
SITE 4	LANDFILL 2	RI
SITE 5	LANDFILL 3	RI
SITE 6	LANDFILL 4 ZONE 1	RI

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
 INSTALLATION RESTORATION PROGRAM
 (FY 86)**

Site Name		Description	Projects
SITE	7	LANDFILL 5 ZONE 1	RI
SITE	8	LANDFILL 6 ZONE 1	RI
SITE	9	DPDO STORAGE FACILITY	RI
SITE	10	MISSILE SITE TRANSFORMER LOCATION	RI
SITE	11	PESTICIDE WASH AREA	RI
SITE	13	MISSILE SITE MOGAS STORAGE TANKS	RI
SITE	14	NDI SHOP DRAIN FIELD	RI
SITE	15	MISSILE SITE ACCIDENT AREA	RI
SITE	16	PCB SPILL SITE	RI
SITE	17	BULK FUEL STORAGE TANK	RI
SITE	18	BULK FUEL STORAGE TANK	RI
SITE	19	BURIED OIL DRUMS	RI
SITE	20	MISSILE SITE JP-X DISCHARGE PIT	RI
SITE	21	WWTP SLUDGE DISPOSAL AREAS ZONE 1	RI
SITE	22	MISSILE SITE NEUTRALIZED ACID PIT	RI
SITE	23	CLEWAN UP HAZ WASTE VARIOUS SITES	RA
** MINN STPAUL IAP, MN (AF)			
SITE	5	PAST FUEL SPILL AREA	RI/RA
** MOODY AFB, GA (AF)			
SITE	1	SOUTHWEST LANDFILL	RI
SITE	2	DUT BURIAL SITE	RI/RA
SITE	3	LILY PAD POND FILL SITE	RI
SITE	12	NORTH POL TANK FARM	RI/FS
** MOUNTAIN HOME AFB, W (AF)			
SITE	1	WASTE OIL DISPOSAL SITE	RI
SITE	2	EXISTING FIRE DEPT. TRAINING AREA	FS
** MURPHY DOME LRAS, AK (AF)			
SITE	1	ROAD OILING	RI
SITE	2	LANDFILL 1	RI
SITE	3	WASTE ACCUMULATION AREA 2	RI
SITE	4	WASTE ACCUMULATION AREA 3	RI
SITE	5	LANDFL 2	RI
SITE	6	WHITE ALICE	RI
SITE	7	WASTE ACCUMULATION AREA 1	RI
SITE	8	LRRA/VAC	RI
** NEWARK AFB, OH (AF)			
SITE	1	SP 3	RI
SITE	2	SP 4	RI
SITE	3	SP 1	RI
SITE	4	AT 1	RI
** MORTON AFB, CA (AF)			
SITE	1	LANDFILL 1	RI
SITE	2	LOW LEVEL RADIOACTIVE WASTE BURIAL	RI
SITE	3	INDUSTRIAL WASTE LAGOONS	RI
SITE	4	BLDG 723	RA
SITE	5	WASTE PIT 1	RI

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

Site Name		Description	Project
SITE	6	WASTE PIT 2	RI
SITE	7	WASTE PIT 3	RI
SITE	8	WASTE PIT 4	RI
SITE	9	FPTA 2	RI
SITE	10	OIL SPILL AREAS	RI
SITE	12	IWTP SLDG DRYING BEDS	RI
SITE	13	PCB SPILL	RI
SITE	14	CHEMICAL SPILL 5	RI
SITE	15	FUEL SLUDGE DISPAAVS/DAVA EVAP BASIN	RI
SITE	16	WASTE DRUM STORAGE 1	RI
SITE	17	WASTE DRUM STORAGE 3	RI
SITE	18	AVGAS SPILL	RI
** OCEAN CAPE, AK (AF)			
SITE	1	RADIO RELAY SITE	RA
** OTIS ANG, MA (AF)			
SITE	1	SANITARY LANDFILL	RI/RA
SITE	2	CURRENT FIRE FIGHTING TRAINING AREA	RI/RA
SITE	3	AVGAS FUEL TEST DUMP SITE	RI/RA
SITE	4	PETROL/FUEL STORAGE AREA	RI/RA
SITE	5	RAILYARD FUEL PUMPING STATION	RI/RA
SITE	6	FORMER SEWAGE SLUDGE BED 1	RI/RA
SITE	7	R/W AIRCRAFT MAINTENANCE DRAINAGE DITCH	RI/RA
SITE	8	FORMER SLUDGE BED 2	RI/RA
SITE	9	MAIN BASE LANDFILL	RI/RA
SITE	10	AQUA FARM DRAINAGE SWALE	RI/RA
SITE	11	R/W AIRCRAFT MAINTENANCE DRAINAGE DITCH	RI/RA
SITE	12	FORMER MAIN USAF MOTOR POOL	RI/RA
SITE	13	FORMER ENGINE RUN-UP AREA	RI/RA
SITE	14	FUEL LINE LEAK CONTAINMENT AREA	RI/RA
SITE	15	RANGE FUEL LINE LEAK	RI/RA
SITE	16	HANAR 158, AIRCRAFT MAINTENANCE	RI/RA
SITE	17	BLDG 156 VAPOR DEGREASER LEACH PIT	RI/RA
SITE	18	COAL/ASH RUNOFF DRAINAGE DITCH	RI/RA
SITE	19	CURRENT PRODUCT TANKS 100, 101	RI/RA
SITE	20	FORMER USAF/ANG COAL STORAGE YARD	RI/RA
SITE	21	BX AUTOMOBILE SERVICE STATION	RI/RA
SITE	22	TRANSMITTER STATION	RI/RA
SITE	23	HANGAR 3170 AREA	RI/RA
SITE	24	USCG MAINTENANCE SHOPS	RI/RA
SITE	25	HANGAR 128	RI/RA
SITE	26	UTES/BOMARK	RI/RA
SITE	27	SOUTH TRUCK ROAD MOTOR POOL	RI/RA
SITE	28	WEST TRUCK ROAD MOTOR POOL	RI/RA
SITE	29	FORMER REFUELER MAIN SHOP	RI/RA
SITE	30	WWII MOTOR POOL/TRANSFER POINT	RI/RA
SITE	31	FUEL TRANSFER POINT	RI/RA
SITE	32	FORMER MOGAS STORAGE	RI/RA
SITE	33	FUEL SPILL (RANGE E 3)	RI/RA
SITE	34	CURRENT PRODUCT TANK 115	RI/RA
SITE	35	CURRENT PRODUCT TANK 88	RI/RA

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
 INSTALLATION RESTORATION PROGRAM
 (FY 86)**

Site Name		Description	Project
SITE	36	CURRENT PRODUCT TANK 90	RI/RA
SITE	37	CURRENT PRODUCT TANK 108	RI/RA
SITE	38	PESTICIDE SHOP	RI/RA
SITE	39	FORMER FIREFIGHTING TRAINING AREA ZONE 1	RI/RA
SITE	40	FORMER FIRE TRAINING AREA (1956-1958)	RI/RA
SITE	41	FORMER FIRE TRAINING AREA (1948-1956)	RI/RA
SITE	42	NON-DESTRUCTIVE TEST LAB ZONE 1	RI/RA
** PATRICK AFS, FL (AF)			
SITE	1	LANDFILL 1	RI
SITE	2	SITE 3 CHEMICAL DISPOSAL SITE	RI/FS
SITE	3	CHEMICAL DISPOSAL SITE 6	RI
SITE	4	LANDFILL 4	RI
SITE	5	CHEMICAL DISPOSAL SITE 7	RI
SITE	6	CHEMICAL DISPOSAL SITE 1	RI
SITE	7	CHEMICAL DISPOSAL SITE 2	RI
SITE	8	LANDFILL 3	RI
SITE	9	CHEMICAL DISPOSAL SITE 4	RI
SITE	10	CHEMICAL DISPOSAL SITE 5	RI
SITE	11	FPTA 1	RI
SITE	12	FPTA 2	RI
SITE	13	POL BULK STORAGE	FS
SITE	14	PCB SPILL 2	RI
SITE	15	LANDFILL 5A	RI
** PHELPS COLLINS ANG, MI (AF)			
SITE	1	FORMER SITE OF HANGAR 9	RI/FS
SITE	2	MOTOR POOL AREA BLDGS 7 & 13	RI/FS
SITE	3	FORMER COUNTY GARAGE	RI/FS
SITE	4	THIRD FIRE DEPARTMENT TRAINING AREA	RI/RD
SITE	5	SECOND FIRE DEPARTMENT TRAINING AREA	RI/FS
SITE	6	FORMER SOILD WASTE LANDFILL	RD
SITE	7	FIRST FIRE DEPARTMENT TRAINING AREA	RI/FS
SITE	8	FORMER RADAR TOWER	RI/FS
** PLATTSBURGH AFB, NY (AF)			
SITE	1	TIRE SHOP WASTE ACCUMULATION AREA	RA
** POPE, NC (AF)			
SITE	1	FACILITY 452	RA
SITE	2	POL BULK STORAGE	RA
** PORT HEIDEN, AK (AF)			
SITE	1	PCB SPILL	RA
** PORTLAND ANG, OR (AF)			
SITE	1	CENTRAL HAZ WASTE TEMPORARY STOR.AREA	RI/FS
SITE	2	CE HAZ MATRL STORAGE AREA	RI/FS
SITE	3	HUSH HOUSE	RI/FS
SITE	4	MAIN DRAINAGE DITCH	RI/FS
SITE	5	AGE MAINTENANCE SHOP	RI/FS
SITE	6	BURN PIT AREA	RI/FS

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

Site Name	Description	Project
SITE 7	SANITARY LANDFILL	RI/FS
SITE 8	NORTH BEND ANG	RI/FS
** RANDOLPH, TX (AF)		
SITE 1	TF-73	RI
SITE 2	TF-13	RI
SITE 3	TF 4	RI
SITE 4	TF-15038	RI
SITE 5	TF 875	RI
SITE 6	TF 675	RI
SITE 7	TF 35	RI
SITE 8	FPTA 2	RI
SITE 9	LANDFILL 2	RI
SITE 10	TANK T-16	RI
SITE 11	T-24,T-25	RI
SITE 12	POL TANK SLUDGE DISPOSAL AREA	RI
** REESE AFB, TX (AF)		
SITE 1	D-1	RI
SITE 2	SI-1	RI
SITE 3	D-4	RI
SITE 4	D-5	RI
SITE 5	D-11	RI
SITE 6	SI-2	RI
SITE 7	SI-4	RI
SITE 8	FT-1	RI
SITE 9	SP-1	RI
SITE 10	SEWAGE DIGESTER SLUDGE AREA	RI
SITE 11	POL STORAGE 4EA	RI
SITE 12	SEWAGE LAKE	RI
SITE 14	SEWAGE FT-3	RI
SITE 15	HURLWOGD ACQUISITION AND LANDFILL	RI
** RICHARDS GEBEUR, MO (AF)		
SITE 1	SOUTH LANDFILL	RI
SITE 2	NORTHEAST LANDFILL	RI
SITE 6	NORTH BURN AREA	RI
SITE 8	HERBICIDE BURIAL AREA	RI
SITE 9	OIL SATURATED AREA	RI
SITE 10	HAZ WASTE DRUM STORAGE	RI
SITE 12	POL STORAGE AREA	RI
** RICKENBACKER ANG, OH (AF)		
SITE 1	HAZ WASTE STORAGE TANK AREA	RI/FS
SITE 2	JP-4 BULK STORAGE FARM	RI/FS
SITE 3	JP-4 PUMPING STATION 4	RI/FS
SITE 4	AREA NEAR JP-4 PUMPING STATION 5	RI/FS
SITE 5	SPILL AREA BETWEEN TAXIWAYS B & C	RI/FS
SITE 6	UG UNLEADED GASOLINE STORAGE TANK	RI/FS
SITE 7	SALVAGE YARD, FAC. NO 906	RI/FS
SITE 8	JP 4 FUEL LINE RUPTURE	RI/FS
SITE 9	OLD DRUM STORAGE AREA NEAR BLDG 873	RI/FS

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
 INSTALLATION RESTORATION PROGRAM
 (FY 86)**

Site Name		Description	Project
SITE	10	KC-35 CRASH	RI/FS
SITE	11	FUEL DUMP PIT	RI/FS
SITE	12	OLD ENTOMOLOGY LAB	RI/FS
SITE	13	DRAINAGE DITCH NR HEAT PLANT NORTH COAL	RI/FS
SITE	14	DRAIN DITCH NR HEAT PLNT SOUTH COAL PILE	RI/FS
SITE	15	DRUM BHND H2O TREAT PLANT SLUDGE BED	RI/FS
SITE	16	OUTDOOR LUBE DRUM STORAGE NR HEAT PLANT	RI/FS
SITE	17	FIRE TRAINING AREA	RI/FS
SITE	18	SANITARY SEWAGE TREATMENT SLUDGE BED	RI/FS
SITE	19	STORM DRAIN DITCH SYSTEM	RI/FS
SITE	20	ELECTRICAL TRANSFORMER STORAGE YARD	RI/FS
SITE	21	DRAINAGE DITCH NEAR LANDFILL	RI/FS
** ROBINS AFB, GA (AF)			
SITE	1	LANDFILL 4	RI
SITE	2	FTA 2	RI
SITE	3	SLUDGE LAGOON	RI
SITE	4	LANDFILL 3	RI
SITE	5	DDT SITE	RI
SITE	6	2 WATERWELLS (REPLACE)	RI
SITE	7	UST REMOVAL	RI
SITE	10	LANDFILL 1	RI
SITE	11	LANDFILL 2	RI
SITE	20	FTA 4	RI
SITE	20	JP-4 SPILL (1965)	RI/FS
SITE	21	PCB SPILL	RI
SITE	22	FTA 1	RI
SITE	23	FTA 3	RI
SITE	24	RADIOACTIVE WASTE DISPOSAL SITE	RI
SITE	25	HAZ WASTE DISPOSAL SITE	RI
SITE	26	LABORATORY CHEM. BURIAL	RI
** SEYMOUR-JOHNSON AFB, NC (AF)			
SITE	1	FUEL HYDRANT SYSTEM	RI
SITE	2	TANK FARM SPILL	RI
SITE	3	LANDFILL 1	RI
SITE	5	#6 FIRE TRAINING AREA	RI
SITE	6	LANDFILL 4	RI
SITE	7	FUEL TANK FUEL SPILL AREA A	FS
SITE	13	DITCH ADJACENT TO RR TRACKS	RI/FS
SITE	14	CSR DITCH	RI
** SHAW AFB, SC (AF)			
SITE	1	JP-4 SPILL	RI
** SKEYA, AK (AF)			
SITE	1	MULTIPLE LOCATIONS	RA
** SHEPHERD FIELD, WV (AF)			
SITE	1	DRAINAGE AREA	RI/FS
SITE	2	SHIPPING/RECEIVING AREA	RI/FS
SITE	3	FIRE TRAINING AREA	RI/FS

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

Site Name	Description	Project
** SPARREVOHN LRRS, AK (AF)		
SITE 1	DUMP AREAS	RI
SITE 2	SPILL 1	RI
SITE 3	LANDFILL 1	RI
SITE 4	WASTE ACCUMULATION AREA	RI
SITE 5	SPILL 2	RI
SITE 6	TRANSMITTER ROAD	RI
SITE 7	ROAD OILING	RI
SITE 8	WHITE ALICE SITE	RI/RA
** STEWART ANG, NY (AF)		
SITE 1	LANDFILL	RI/FS
SITE 2	PESTICIDE BURIAL SITE	RI/RA
** SUFFOLK ANG, NY (AF)		
SITE 1	FIRE TRAINING PIT	RI/FS
SITE 2	AREA AJACENT TO PARKING LOT	RI/FS
SITE 3	FORMER HW STORAGE BLDG 358	RI/FS
SITE 4	CURRENT HW STORAGE BLDG 282	RI/FS
SITE 5	AIRCRAFT REFUELING APRON	RI/FS
SITE 6	OPEN DITCH AREA	RI/FS
** TATALINA LRRS, AK (AF)		
SITE 1	LRRS	RA
SITE 16	WHITE ALICE SITE	RA
** TINKER, OK (AF)		
SITE 1	LANDFILL 2	RI
SITE 3	BLDG 3001	RI
SITE 4	3108 AREA RAP	RI
SITE 5	CRUTCHO KULHMAN AND ELM CREEK	RI
SITE 6	LANDFILL 4	RI
SITE 7	LANDFILL 6	RI
SITE 8	EAST SOLDIERS CREEK	RI/RA
SITE 9	FDTA 1	RI
SITE 10	IWTP TANKS	RI
SITE 11	POL TANK FARM/AUST	RI
SITE 12	WELLS 18 AND 19	RI
SITE 13	FDTA 2	RI
SITE 14	LANDFILL 1	RI
SITE 15	LANDFILL 5	RI
SITE 16	FACILITY 1123	RI
SITE 17	RWDS 1022E	RI
SITE 18	RWDS 201S	RI
SITE 19	RWDS 62598	RI
SITE 20	ALL SITES UNSPECIFIED NUMBER	RI
SITE 21	LANDFILL NO. 3	RI
SITE 22	INDUSTIAL WASTE PIT 1	RI
SITE 23	INDUSTRIAL WASTE PIT 2	RI
** TRAVIS, CA (AF)		
SITE 1	STP SLUDGE DISPOSAL	RI

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
 INSTALLATION RESTORATION PROGRAM
 (FY 86)**

Site Name		Description	Project
SITE	2	OLD SPILLAGE	RI
SITE	3	STP INACTIVE OXIDATION POND	RI
SITE	4	FPTA 1	RI
SITE	5	FPTA 2	RI
SITE	6	FPTA 3	RI
SITE	7	FPTA 4	RI
SITE	8	DISPOSAL SITE 1	RI
SITE	9	DISPOSAL SITE 3	RI
SITE	10	JP-4 SPILL	RI/RA
SITE	11	LANDFILL 1	RI
SITE	12	LANDFILL 2	RI
SITE	13	LANDFILL 3	RI
SITE	14	SOLVENT SPILL	RI
SITE	20	OIL SPILL	RI
SITE	30	UNION CIRCLE STORM SEWER SYSTEM	RI
SITE	31	RD-1 RADIOACTIVE WASTE BURIAL	RI
SITE	32	RD-2 RADIOACTIVE WASTE BURIAL	RI
SITE	33	UNDERGROUND STORAGE TANKS	RA/RTM
** TYNDALL AFB, FL (AF)			
SITE	1	SEWAGE PLANT LANDFILL	RI
SITE	5	SPRAY FIELD LANDFILL	RI
SITE	6	SOUTHEAST RUNWAY BURIAL SITE	RI
SITE	7	ZONE 8 "6000" AREA LANDFILL	RI
SITE	8	ZONE 1 POL AREA A FUEL SUPPLY	RI
SITE	9	ZONE 9 POL AREA B FUEL SUPPLY	RI
SITE	11	ZONE 6 HIGHWAY 98 FOTA	RI
SITE	12	ZONE 4 AAFES SERVICE STATION	RI
SITE	13	ZONE 5 SMALL ARMS REPAIR	RI
SITE	14	ZONE 2 LYNN HAVEN DFSP	RI
SITE	15	ZONE 7 SE EXTENSION BURIAL SITE	RI
** TYNDALLAFB, FL (AF)			
SITE	10	ZONE 10 SHELL BANK FOTA	RI
** VANCE AFB, OK (AF)			
SITE	1	CHEMICAL DISPOSAL PIT	FS
SITE	2	UST FUEL TEST CELL	FS
SITE	3	TANK FARM LANDFILL	FS
SITE	7	SITE 7	FS
SITE	8	SITE 8	FS
SITE	9	SITE 9	FS
SITE	10	AUX FIRE TRAINING AREA	FS
SITE	11	FIRE FIGHTER TRAINING AREA	FS
SITE	12	EAST BOUNDARY LANDFILL	FS
SITE	13	SOUTHEAST LANDFILL	FS
SITE	14	AQUA/AVGAS SYSTEM	FS
SITE	15	STORAGE TANK AREA 110	FS
SITE	16	HAZARDOUS WASTE ACCUMULATION PIT	FS
SITE	17	TANK SLUDGE DISPOSAL AREA	FS
** VANDENBERG AFB, CA (AF)			
SITE	1	CS 2	RI

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 88)**

Site Name		Description	Project
SITE	2	LF 2	RI
SITE	3	LF-5	RI
SITE	4	SITE 3 CHEMICAL DISPOSAL	RI
SITE	5	SITE 4 CHEMICAL DISPOSAL	RI
SITE	6	AUTA	RI
SITE	7	SITE 5 CHEMICAL DISPOSAL	RI
SITE	8	SITE 6 CHEMICAL DISPOSAL	RI
SITE	9	SITE 7 CHEMICAL DISPOSAL	RI
SITE	10	SITE 8 CHEMICAL DISPOSAL	RI
SITE	11	SITE 9 CHEMICAL DISPOSAL	RI
SITE	12	LF 3A	RI
SITE	13	SITE 1 CHEMICAL DISPOSAL	RI
SITE	14	FTA-1	RI
SITE	15	LF-1	RI
SITE	16	SITE DRUM DISPOSAL	RI
SITE	17	LF-11	RI
** VOLK FIELD ANG, WI (AF)			
SITE	7	LANDFILL C	RI/FS
** VOLK FIELD ANG, WI (AF)			
SITE	5	KC 97 CRASH SITE	RI/FS
** VOLK FIELD ANG, WI (AF)			
SITE	1	CHRONIC FUEL SPILL SITE	RI/FS
SITE	2	JP-4 SPILL SITE	RI/FS
SITE	3	FIRE TRAINING AREA	RI/FS
SITE	4	TRANSFORMER FLUID DISPOSAL SITE	RI/FS
SITE	6	MUNITIONS BURIAL SITE	RI/FS
SITE	8	FUEL SPILL	RI/FS
SITE	9	LANDFILL A	RI/FS
** WAKE ISLAND, TT (AF)			
SITE	1	1500 LIQUID FUEL STORAGE AREA	RI
SITE	2	SITE 7	RI
SITE	3	1800 LIQUID FUEL STORAGE	RI
SITE	4	1700 LIQUID FUEL STORAGE	RI
SITE	5	SITE 13	RI
SITE	6	SITE 14	RI
SITE	7	SITE 10	RI
SITE	8	SITE 9	RI
SITE	9	SITE 4	RI
SITE	10	SITE 5	RI
SITE	11	SITE 8	RI
SITE	12	SITE 11	RI
SITE	13	NO. LNDFL FTA	RI
SITE	14	SITE 12	RI
SITE	15	SITE 6	RI
SITE	16	SITE 15	RI
** WESTOVER, MA (AF)			
SITE	1	SANITARY LANDFILL B	RI

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
 INSTALLATION RESTORATION PROGRAM
 (FY 86)**

Site Name		Description	Project
SITE	2	SANITARY LANDFILL A	RI
SITE	3	CHRISTMAS TREE FDTA	RI
SITE	4	RADIOACTIVE WASTE SITE	RI
SITE	5	NORTH FDTA	RI
SITE	6	STP AREA	RI
SITE	7	FACILITY 900 LEACHING PIT	RI
SITE	3	CURRENT FDTA	RI
SITE	11	BATTERY SHOP LEACHING PIT	RI
SITE	15	INDUSTIAL WASTE TREATMENT PLANT	RI
** WILLIAMS AFB, AZ (AF)			
SITE	1	SURFACE DRAINAGE SYSTEM NW	RI
SITE	2	FPTA 2	RI
SITE	3	HAZARDOUS MAT. STRAGE AREA 1	RI
SITE	4	FPTA 1	RI
SITE	5	LANDFILL	RI
SITE	6	BLDG 548	RI
SITE	8	RADIOACTIVE MATERIAL BURIAL SITE	RI
SITE	9	LIQUID FUELS STORAGE AREA	RI
SITE	10	PESTICIDE BURIAL SITE	RI
SITE	20	SURFACE DRAINAGE SYSTEM SW	RI
** WILLOW GROVE ARF, PA (AF)			
SITE	1	HEATING PLANT	RI
SITE	2	OPEN WASTE STORAGE YARD	FS
SITE	3	PONDING AREA	FS
SITE	4	POL AREA	FS
SITE	5	OLD WELL HOUSE	RI
SITE	6	WASHRACK AREA	RI
SITE	7	WASTE OIL STORAGE AREA	RI
** WRIGHT PATTERSON AFB, OH (AF)			
SITE	30	DEACTIVATED NUCLEAR REACTOR	RI/FS
** WRIGHT-PATTERSON AFB, OH (AF)			
SITE	1	COAL STORAGE PILE	RI
SITE	2	AREAS A, B, AND C	RI
SITE	3	CENTRAL HEAT PLANT 1	RI
SITE	4	CENTRAL HEATING PLANT 2	RI
SITE	5	CENTRAL HEATING PLANT 3	RI
SITE	6	CENTRAL HEATING PLANT 4	RI
SITE	7	CENTRAL HEATING PLANT 5	RI
SITE	8	LANDFILL 1	RI
SITE	9	LANDFILL 2	RI
SITE	10	LANDFILL 3	RI
SITE	11	BURIAL SITE 1	RI/FS
SITE	12	BURIAL SITE 2	RI/FS
SITE	13	FT AREA 2	RI/FS
SITE	14	LF 5	RI/FS
SITE	15	LANDFILL 8	RI
SITE	16	LANDFILL 9	RI/FS
SITE	17	LANDFILL 10	RI

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
 INSTALLATION RESTORATION PROGRAM
 (FY 86)**

Site Name		Description	Project
SITE	18	LANDFILL 11	RI
SITE	19	LANDFILL 12	RI/RA
SITE	20	FDTA 1	RI
SITE	21	UNDERGROUND TANKS AREA B	RI/FS
SITE	22	FDTA 3	RI
SITE	23	UNDERGROUND TANKS AREA C	RI/FS
SITE	24	RADIOACTIVE WASTE BURIAL SITE	RI/FS
SITE	25	SPILL 2	RI
SITE	26	SPILL 3	RI
SITE	30	LANDFILL 13	RI
** WURTSMITH, MI (AF)			
SITE	1	MPA OG TANKS	RA
SITE	2	AF BEACH COMPLEX	RA
SITE	4	SP-2	RA
SITE	5	SP-5	RA
SITE	6	SP-7	RA
** YOUNGSTOWN, OH (AF)			
SITE	1	PAR COURSE DRUM STORAGE	RI
SITE	2	WASTE OIL SOLVENT CORRAL	RI
SITE	3	POL LEAD SLUDGE DISPOSAL AREA	RI
SITE	4	TRANSFORMER STORAGE AREA	RI

**DEFENSE
LOGISTICS
AGENCY**

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
 INSTALLATION RESTORATION PROGRAM
 (FY 88)**

Site Name	Description	Project
** DDMT MEMPHIS, TN (DEFENSE LOGISTICS AGENCY)		
SITE 1	CLEAN-UP HM RECOUPMENT AREA, REMOVE DIOX	RA
** DDOU OGDEN, UT (DEFENSE LOGISTICS AGENCY)		
SITE 1	FORMER LANDFILLS (CONTRACT ADMIN)	RI/FS
** DDTG TRACY, CA (DEFENSE LOGISTICS AGENCY)		
SITE 1	ON-SITE SOIL ANALYSIS, WELLS, BORINGS, ETC.	RI/FS
** DFSC OZOL/VINE HILL, CA (DEFENSE LOGISTICS AGENCY)		
SITE 3	OFF-SITE CLEAN-UP	RI/FS
** DFSP CHARLESTON, SC (DEFENSE LOGISTICS AGENCY)		
SITE 1	OFF-SITE WELLS, BORINGS, SOIL ANALYSIS	RI/FS
** DFSP NEWINGTON, NH (DEFENSE LOGISTICS AGENCY)		
SITE 1	WELLS AND BORINGS	RI/FS
** DFSP OZOL, CA (DEFENSE LOGISTICS AGENCY)		
SITE 1	CONTRACT ADMIN.	RI/FS
** DFSP SAN PEDRO, CA (DEFENSE LOGISTICS AGENCY)		
SITE 1	TANK FARM WELLS, BORINGS AND ANALYSIS	RI/FS
SITE 2	WHARF WELLS, BORINGS AND ANALYSIS	RI/FS
** DGSC RICHMOND, VA (DEFENSE LOGISTICS AGENCY)		
SITE 1	SOIL BORINGS, SAMPLING AND FINAL REPORT	RI/FS

APPENDIX B

STATE LISTING

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
 INSTALLATION RESTORATION PROGRAM
 (FY 86)**

ALASKA

Site Name	Description	Projects
** FORT WAINWRIGHT (ARMY)		
SITE 2	OLD DRUM STORAGE AREA	RI/FS
SITE 3	FAMILY HOUSING AREA	RI/FS
SITE 4	COAL PILE	RI/FS
** ALASKAN DEWLINE (AIR FORCE)		
SITE 1	BAR-M 1	RI
SITE 2	BAR M 2	RI
SITE 3	BAR M 3	RI
SITE 4	BAR M 4	RI
SITE 8	BAR M 8	RI
SITE 9	BAR M 9	RI
SITE 12	BAR M 12	RI
SITE 13	POW-3	RI
SITE 16	POW-2 16	RI
SITE 17	POW-2 17	RI
SITE 20	POW-2 20	RI
SITE 25	POW-1 25	RI
SITE 28	POW-1 28	RI
SITE 29	POW-1 29	RI
SITE 31	POW-1 31	RI
SITE 32	POW-1 32	RI
SITE 37	LIZ 3 37	RI
SITE 38	LIZ 3 38	RI
SITE 39	LIZ 3 39	RI
SITE 40	LIZ 2 40	RI
SITE 43	LIZ 2 43	RI
SITE 44	LIZ 2 44	RI
** CAMPION LRRS (AIR FORCE)		
SITE 1	LANDFILL 1	RU/RA
SITE 2	LANDFILL 2	RU/RA
SITE 3	SPILL 1	RU/RA
SITE 4	LRRS	RU/RA
SITE 5	WASTE ACCUMULATION 1	RU/RA
SITE 6	WASTE ACCUMULATION 2	RU/RA
SITE 7	WHITE ALICE SITE	RU/RA
** CAPE M'WHENHAM (AIR FORCE)		
SITE 1	WASTE ACCUMULATION AREA 2	RA
SITE 3	DUMP AREA	RA
SITE 4	ROAD ORLING	RA
SITE 5	WASTE ACCUMULATION 3	RA
SITE 6	LANDFILL 1	RA
SITE 7	WHITE ALICE SITE	RA
** CLEAR AFB (AIR FORCE)		
SITE 1	PAST LANDFILL	LFM
SITE 2	PAST LANDFILL	LFM

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
 INSTALLATION RESTORATION PROGRAM
 (FY 86)**

ALASKA

Site Name	Number	Description	Project
SITE	3	CURRENT LANDFILL	LTM
SITE	4	#4 LANDFILL PRIOR TI 1959	LTM
SITE	5	COAL STORAGE	LTM
SITE	6	LEACHATE FIELD SEPTIC TANK	LTM
SITE	7	FUEL SPILL	LTM
SITE	8	STORAGE TANKS-LUST	LTM
SITE	10	RADIOACTIVE MATERIAL STORAGE YARD	LTM
SITE	11	FOTA	LTM
SITE	13	PARTIALLY FILLED DRUMS	LTM
SITE	14	CONSTRUCTION CAMP DISPOSAL AREA	LTM
** COLD BAY LRRS (AIR FORCE)			
SITE	1	SPILL	RI
SITE	2	LANDFILL	RI
SITE	3	ROAD OILING	RI
SITE	4	LRR	RI
** EIELSON AFB (AIR FORCE)			
SITE	1	ORIG. BASE LNOFL	RI
SITE	2	OLD BASE LNOFL	RI
SITE	3	CURRENT BASE LNOFL	RI
SITE	4	FOTA (PAST)	RI
SITE	5	FOTA (PRESENT)	RI
SITE	6	E 2 POL STOR	RI
SITE	8	FUEL SATURATED AREA	RI
SITE	9	E 4 DIESEL FUEL SPILL	RI
SITE	10	MULTIPURPOSE FUEL LINE	RI
SITE	11	MOGAS FUEL SPILL	RI
SITE	13	CANGL PIPELINE SPILL	RI
SITE	14	FUEL SATURATED AREA. OLD BOILER	RI
SITE	15	JP 4 FUEL LINE SPILL	RI
SITE	16	REFUELING LOOP	RI
SITE	17	SEWAGE TREATMENT SPILL POND	RI
SITE	18	ASPHALT MIXING AREA	RI
SITE	19	DRUM STORAGE SITE. ASPHALT MIXING AREA	RI
SITE	20	WASTE POL PIT	RI
SITE	21	ASPHALT LAKE	RI/RA
SITE	22	AUTO HOBBY SHOP	RI
SITE	23	OLD ARMY EOD AREA	RI
SITE	24	OLD ARMY LNOFL	RI/RA
SITE	25	OLD LNOFL	RI
SITE	26	E 2 RAILROAD JP 4 SPILL	RI
SITE	27	OILING QUARRY RD	RI
SITE	28	DRUM STORAGE ASPHALT MIXING	RI
SITE	29	OILING IND DR	RI
SITE	32	OILING MANDU RD	RI
SITE	34	OILING GRAVEL HAUL RD	RI
SITE	35	E 6 FUEL TANK SLUDGE	RI
SITE	36	E 10 FUEL TANK SLUDGE	RI
SITE	37	E 11 FUEL TANK SLUDGE	RI

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
 INSTALLATION RESTORATION PROGRAM
 (FY 88)**

ALASKA

Site Name		Description	Project
SITE	38	DRUM BURIAL SITE	RI/RA
SITE	39	SLUDGE DRYING BEDS	RI
SITE	41	MISC. DISP. AREA	RI

**** ELMENDORF AFB (AIR FORCE)**

SITE	1	IS-8	RI
SITE	2	D4	RI
SITE	4	IS-2	RI
SITE	5	D-16	RI
SITE	6	IS-3	RI
SITE	7	IS-4	RI
SITE	8	IS-5	RI
SITE	9	SP-6	RI
SITE	10	43 450	RI
SITE	11	SP-1	RI
SITE	12	SP-4	RI
SITE	13	D-13	RI
SITE	14	SP-13	RI
SITE	15	D-3	RI
SITE	16	SP-5	RI
SITE	17	D-5	RI
SITE	18	SP-7	RI
SITE	20	SP-11	RI
SITE	21	S-6	RI
SITE	23	D-7	RI
SITE	24	FY-1	RI
SITE	25	SP-2	RI
SITE	27	IS-1	RI
SITE	28	SP-15	RI
SITE	29	IS-7	RI
SITE	30	BLDG 11 435	RA
SITE	31	SP-14	RI
SITE	31	D-10	RI
SITE	32	D-17	RI
SITE	33	D-17	RI
SITE	33	D-5 POL SLUDGE	RI
SITE	34	BLDG 22 009 HAZ MAT STOR	RI
SITE	35	FIRE ISLAND	RI

**** FORT YUKON LRAS (AIR FORCE)**

SITE	1	WASTE ACCUMULATION	RI
SITE	2	ROAD OILING	RI
SITE	3	LANDFILL 1	RI
SITE	4	OL DISCHARGE	RI
SITE	5	WHITE ALICE SITE	RI
SITE	6	LRAS	RI/RA

**** GALENA AIRPORT (AIR FORCE)**

SITE	1	SPILL 1	RI
SITE	2	SPILL 2	RI

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
 INSTALLATION RESTORATION PROGRAM
 (FY 86)**

ALASKA

Site Name	Site Number	Description	Project
SITE	3	SPILL 3	RI
SITE	4	FPTA	RI
SITE	5	WASTE ACCUMULATION	RI
SITE	6	SPILL/LEAK 4&5 AND POL TANK FARM	RI
** GRANITE MOUNTAIN (AIR FORCE)			
SITE	1	WASTE ACCUMULATION	RA
** INDIAN MOUNTAIN LRSS (AIR FORCE)			
SITE	3	LANDFILL 3,4 AND WASTE ACCUMULATION 4	RURA
SITE	5	SPILL 2,5,6,7,9,10 AND WASTE ACC. 6	R/RRA
SITE	11	LANDFILL 1	RI
SITE	12	WASTE ACCUMULATION AREA 1	R/RRA
SITE	13	WASTE ACCUMULATION AREA 3 AND SPILL 4,11	RURA
SITE	14	WASTE ACCUMULATION AREA 5	RURA
SITE	16	DUMP AREAS	RI
SITE	17	LANDFILL 2	RI
SITE	18	WHITE ALICE SITE	RURA
** MURPHY DOME LRSS (AIR FORCE)			
SITE	1	ROAD OILING	RI
SITE	2	LANDFILL 1	RI
SITE	3	WASTE ACCUMULATION AREA 2	RI
SITE	4	WASTE ACCUMULATION AREA 3	RI
SITE	5	LANDFILL 2	RI
SITE	6	WHITE ALICE	RI
SITE	7	WASTE ACCUMULATION AREA 1	RI
SITE	8	LDRAWAC	RI
** OCEAN CAPE (AIR FORCE)			
SITE	1	WADW RELAY SITE	RA
** PORT HEDDEN (AIR FORCE)			
SITE	1	PCB SPILL	RA
** SNEYA (AIR FORCE)			
SITE	1	MULTIPLE LOCATIONS	RA
** SPAREBOWN LRSS (AIR FORCE)			
SITE	1	DUMP AREAS	RI
SITE	2	SPILL 1	RI
SITE	3	LANDFILL 1	RI
SITE	4	WASTE ACCUMULATION AREA	RI
SITE	5	SPILL 2	RI
SITE	6	TRANSMITTER ROAD	RI
SITE	7	ROAD OILING	RI
SITE	8	WHITE ALICE SITE	RURA
** TATALWA LRSS (AIR FORCE)			
SITE	1	LRSS	RA

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
 INSTALLATION RESTORATION PROGRAM
 (FY 86)**

ALASKA

Site Name	Description	Project
SITE 16	WHITE ALICE SITE	RA

ALABAMA

Site Name	Description	Project
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**** ALABAMA AAP (ARMY)**

SITE 10	MAGAZINE AREA	RA
SITE 11	OLD BURNING GROUNDS	RA
SITE 12	SMALL ARMS BALLASTICS RANGE	RA
SITE 13	OLD WELL	RA
SITE 14	PROPELLANT SHIPPING HOUSES	RA
SITE 15	SITES 6-24	RA

**** ANNISTON AD (ARMY)**

SITE 1	BLDG 114	RA
SITE 2	Z 1	RA
SITE 3	BLDG 130	RA
SITE 4	LANDFILL (SOUTH)	RA
SITE 20	OTYNER (OPTION OF GWTS)	RA

**** FORT MCCLELLAN (ARMY)**

SITE 4	RANGE T 24A	RUFS
SITE 5	RANGE T 38	RUFS
SITE 6	RANGE I	RUFS
SITE 7	RANGE J	RUFS
SITE 8	RANGE L	RUFS
SITE 9	RANGE K	RUFS
SITE 10	FORMER LANDFILL	RUFS
SITE 11	FORMER LANDFILL	RUFS
SITE 12	FORMER LANDFILL	RUFS

**** BIRMINGHAM ANG (AIR FORCE)**

SITE 1	S 1	RUFS
SITE 2	S 2	RUFS
SITE 3	S 3	RUFS
SITE 4	S 4	RUFS

**** DANNELLY FIELD ANG (AIR FORCE)**

SITE 1	S 1	RUFS
SITE 2	S 2	RUFS
SITE 3	S 3	RUFS
SITE 4	S 4	RUFS
SITE 5	S 5	RUFS

ARKANSAS

Site Name	Description	Project
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**** LITTLE ROCK (AIR FORCE)**

SITE 1	LANDFILL 2	RI
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**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

ARKANSAS

Site Name	Description	Project
SITE 2	LANDFILL 1	RI
SITE 3	LANDFILL 3	RI
SITE 4	LANDFILL 4	RI
SITE 5	LANDFILL 5	RI
SITE 6	LANDFILL 6	RI
SITE 7	LANDFILL 7	RI
SITE 8	FPTA	RI
SITE 9	DISCHARGE PIT	RI
SITE 10	DROO STORAGE	RI
SITE 11	POL FUEL SPILL	RI
SITE 12	BULK FUEL TANK FARM	RI
SITE 13	FLIGHT LINE FUEL LEAKS	RI
SITE 14	FORMER CHEMICAL PLANT SITE	RI
SITE 15	GOLF COURSE AREA	FS

ARIZONA

Site Name	Description	Project
** YUMA PROVING GROUND (ARMY)		
SITE 1	LEAD ARSENIC SITE	RA
** MCAS YUMA (NAVY)		
SITE 3	FIRE SCHOOL	RF/FS
SITE 4	SE SEWAGE LAGOON	RF/FS
** AFB NO. 44 (AIR FORCE)		
SITE 1	FORMER DISPOSAL TRENCHES	RA
SITE 2	FORMER BURN/DISPOSAL PIT	RA
SITE 3	FORMER WASTE DISPOSAL PITS	RA
SITE 4	FORMER WASTE WATER PONDS	RA
SITE 5	FORMER SLUDGE DRYING	RA
SITE 6	UNLINED DITCHES	QA
SITE 7	NORTH FIRE TRAINING AREA	RA
SITE 8	SOUTH FIRE TRAINING AREA	RA
SITE 9	SUBSURFACE PLUME	RA
SITE 10	WEST FIRE TRAINING AREA	RA
SITE 11	DIESEL TANK LEAK	RA
SITE 14	WASTE OIL SPREADING	RA
** DAVIS MONTAN AFB (AIR FORCE)		
SITE 1	FLUSH FARM DRAINAGE DITCH	RI
** LUKE AFB (AIR FORCE)		
SITE 1	WASTE TREATMENT AREA	RI
SITE 2	PERIMETER ROAD POL WASTE APPLICATIONS	RI
SITE 3	POL WASTE DISPOSAL TRENCH	RI
SITE 4	993	CTM
SITE 5	SOUTH FIRE TRAINING AREA	RI

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
 INSTALLATION RESTORATION PROGRAM
 (FY 88)**

ARIZONA

Site Name	Description	Project
SITE 6	NORTH FIRE TRAINING AREA	RI
** WILLIAMS AFB (AIR FORCE)		
SITE 1	SURFACE DRAINAGE SYSTEM NW	RI
SITE 2	FPTA 2	RI
SITE 3	HAZARDOUS MAT. STRAGE AREA 1	RI
SITE 4	FPTA 1	RI
SITE 5	LANDFILL	RI
SITE 6	BLDG 548	RI
SITE 8	RADIOACTIVE MATERIAL BURIAL SITE	RI
SITE 9	LIQUID FUELS STORAGE AREA	RI
SITE 10	PESTICIDE BURIAL SITE	RI
SITE 20	SURFACE DRAINAGE SYSTEM SW	RI

CALIFORNIA

Site Name	Description	Project
** FORT IRWIN (ARMY)		
SITE 1	VALLEY DISPOSAL SITE	RI/RA
SITE 2	OB/OD AREA	RI/RA
SITE 3	TROOP LANDFILL	RI/RA
SITE 4	DUCK POND	RI/RA
** FORT ORD (ARMY)		
SITE 11	FIRE PRATICE AREA	RI/FS
SITE 12	LANDFILL	RI/FS
** HAMILTON ARMY AIR FIELD (ARMY)		
SITE 1	EXCESS SITE	RI/RA
** PRESIDIO OF MONTEREY (ARMY)		
SITE 3	DUMP 1	RI/FS
** RIVERBANK AAP (ARMY)		
SITE 1	IWTP	RI/RA
SITE 2	SITES 2-10	RI/RA
** SACRAMENTO AD (ARMY)		
SITE 1	OXIDATION LAGOON	RI/FS
SITE 3	BURN PIT	RI/FS
SITE 4	UNDERGROUND TANKS	RA
** SHARPE ARMY DEPOT (ARMY)		
SITE 1	SOUTH BALLOON AREA	RI/RA
SITE 2	NORTH BALLOON AREA	RI/FS
SITE 3	SITES 3-14	RA
** CBC PORT HUENEME (NAVY)		
SITE 1	NCEL STOR. YD	RI/FS

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

CALIFORNIA

Site Name	Description	Project
SITE 12	EARTH MOVING AREA	RVFS
SITE 13	HARBOR AND CANALS	RVFS
SITE 14	PROPOSED NTC BLDG SITE	RVFS
SITE 15	CEC PCB SPILLS	RVFS
SITE 17	MUSE PCB SPILL	RVFS
SITE 19	TRANSFORMER STOR.	RVFS
SITE 20	HW MAG.	RVFS
** MCAS EL TORO (NAVY)		
SITE 1	ORDNANCE DISPOSAL AREA	RVFS
SITE 2	COMM. STATION LNDFL	RVFS
SITE 3	CRASH CREW PIT NO. 1	RVFS
SITE 5	TRANSFORMER STOR. AREA	RVFS
SITE 9	BATTERY ACID DISP. PIT	RVFS
SITE 9	CRASH CREW PIT NO 2	RVFS
SITE 11	MAGAZINE RD LANDFILL	RVFS
SITE 14	ORIGINAL LANDFILL	RVFS
SITE 16	PERIMETER RD LANDFILL	RVFS
** MCAS TUSTIN (NAVY)		
SITE 1	MOFFETT TRENCHES & CRASH PIT	RVFS
SITE 2	DRAINAGE NO 1	RVFS
SITE 3	GROUND ADJACENT TO ARPON	RVFS
SITE 5	OIL DISPOSAL AREA	RVFS
SITE 7	PAINT STRIPPER DISPOSAL AREA	RVFS
SITE 10	DRUM STORAGE AREA NO 2	RVFS
SITE 12	DRUM STORAGE AREA NO 3	RVFS
** MCB CAMP PENDLETON (NAVY)		
SITE 1	PEST CONTROL WASHRACK DRAIN DITCH	RVFS
SITE 3	MCAF DRAINAGE DITCH	RVFS
SITE 5	FIRE FIGHTING DRILL FIELD	RVFS
SITE 6	DPDO SCRAP YARD	RVFS
SITE 8	LAS PULGAS LANDFILL	RVFS
** MCLB BARSTOW (NAVY)		
SITE 1	IND. WASTE DISPOSAL AREA	RVFS
SITE 2	PESTICIDE STOR & WASHOUT	RVFS
SITE 3	FUEL DISPOSAL AREA	RVFS
SITE 4	SLUDGE WASTE AREA, YERMO	RVFS
SITE 5	INDUSTRIAL WASTE TREATMENT AREA	RVFS
SITE 6	PCB STORAGE AREA	RVFS
SITE 7	LOW LEVEL RADIOLOGICAL STORAGE AREA	RVFS
SITE 8	CHEMICAL STORAGE AREA	RVFS
** MAB CORONADO (NAVY)		
SITE 1	OLD REFUSE DISP/BURN AREA	RVFS
SITE 2	SANDBLAST GRIT DISP AREA	RVFS
SITE 3	FIRE FIGHTING TRAINING AREA	RVFS
SITE 4	OILED AREAS	RVFS

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

CALIFORNIA

Site Name	Description	Project
** NAS ALAMEDA (NAVY)		
SITE 1	WEST BEACH LANDFILL	RI/FIS
SITE 2	1943,1956 DISPOSAL ARE	RI/FIS
SITE 3	SEAPLANE LAGOON	RI/FIS
SITE 4	AREA 97	RI/FIS
SITE 5	BLDG 301 AND 389	RI/FIS
SITE 6	CANS C-2 AREA	RI/FIS
SITE 7	BLDG 360	RI/FIS
** NAS LEMOORE (NAVY)		
SITE 1	OPERATION AREA OPEN DITCH	RI/FIS
SITE 2	FIRE FIGHTING SCHOOL	RI/FIS
SITE 3	HOUSING AREA OPEN DITCH	RI/FIS
SITE 4	LANDFILL	RI/FIS
SITE 5	FIRE FIGHTING TRAINING FACILITY	RI/FIS
SITE 6	BLDG 3 TRANSFORMER SPILL	RI/FIS
SITE 7	BLDG 468 TRANSFORMER SPILL	RI/FIS
SITE 11	BLDG 752 PEST. RINSE	RI/FIS
SITE 12	BLDG 50 PEST RINSE	RI/FIS
SITE 13	OLD FIRE TRAINING AREA	RI/FIS
SITE 14	TRANSFORMER STORAGE AREA	RI/FIS
** NAS MIRAMAR (NAVY)		
SITE 1	FUEL FARM OPERATING AREA	RI/FIS
SITE 2	ROSE CANYON	RI/FIS
SITE 3	FISH POND	RI/FIS
SITE 4	SAN CLEMENTE CANYON DISPOSAL	RI/FIS
SITE 5	FIRE FIGHTING DRILL FIELDS	RI/FIS
** NSY MARE ISLAND (NAVY)		
SITE 1	LANDFILL	RI/FIS
SITE 2	OIL SUMPS	RI/FIS
SITE 3	BERTHS 4 AND 5	RI/FIS
SITE 4	900 AREA	RI/FIS
SITE 7	CONCORD ANNEX	RI/FIS
SITE 9	SLUDGE PONDS	RI/FIS
SITE 10	LEAD OXIDE AREAS	RI/FIS
** NWC CHINA LAKE (NAVY)		
SITE 1	G1 EAST DISP AREA	RI/FIS
SITE 3	G-1 RANGE SEPTIC SYS	RI/FIS
SITE 7	PW PESTICIDE RINSE AREA	RI/FIS
SITE 12	MINIDECK	RI/FIS
SITE 13	ARMITAGE FIELD	RI/FIS
SITE 14	ARMITAGE FIELD LEACH POND	RI/FIS
SITE 15	MICHELSON LAB DRAINAGE	RI/FIS
SITE 16	SHORT RD LNDFL	RI/FIS
SITE 22	OILY WASTE DISP AREA	RI/FIS
SITE 27	ER RANGE SEPTIC SYS	RI/FIS

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

CALIFORNIA

Site Name	Site No.	Description	Project
SITE	29	R RANGE SEPTIC SYS	RI/FS
SITE	31	G-2 RANGE SEPTIC SYS	RI/FS
SITE	32	PILOT PLANT RD LANDFILL	RI/FS
SITE	34	NAF DISP. AREA	RI/FS
SITE	40	GOLF COURSE PESTICIDE RINSE	RI/FS
SITE	41	LNDFL	RI/FS
** NWS CONCORD (NAVY)			
SITE	1	TIDAL AREA LANDFILL	RI/FS
SITE	2	COKE PILE SITE	RI/FS
SITE	3	BURNING AREA	RI/FS
SITE	4	KINNE BLVD WELLS	RI/FS
SITE	5	BLACK PIT AT RED ROCK	RI/FS
SITE	6	K-2 AREA	RI/FS
SITE	9	G-1 AREA	RI/FS
SITE	11	R AREA DISPOSAL SITE	RI/FS
SITE	13	KILN SITE	RI/FS
SITE	14	ALLIED SITE A	RI/FS
SITE	16	ALLIED SITE B	RI/FS
SITE	25	FROID AND TAYLOR RD DISPOSAL	RI/FS
SITE	26	WOOD HOGGER	RI/FS
** NWS SEAL BEACH (NAVY)			
SITE	1	WW SETTLING POND	RI/FS
SITE	2	OIL ON ROADS	RI/FS
SITE	4	BATTERY SHOP DRAINAGE	RI/FS
SITE	6	OIL ISLAND	RI/FS
SITE	7	BLDG 437 QUENCH WATER DISPOSAL	RI/FS
SITE	19	EVAP POND	RI/FS
SITE	19	BLDG 241 DISP PIT	RI/FS
SITE	22	EXPLOSIVES BURNING GROUND	RI/FS
SITE	24	STATION LANDFILL	RI/FS
** PMTC POINT MUGU (NAVY)			
SITE	1	OLD SHOPS AREA	RI/FS
SITE	2	PUBLIC WORKS STOR YARD	RI/FS
SITE	3	OLD "6 AREA" SHOPS	RI/FS
SITE	4	BLDG 311 YARD	RI/FS
SITE	5	ELECTRIC SUBSTATION 680	RI/FS
SITE	6	MAIN BASE FIRE SCHOOL	RI/FS
SITE	7	LAGOON AND DRAINAGE DITCHES	RI/FS
SITE	8	LAGOON LANDFILL	RI/FS
SITE	11	FUEL FARM	RI/FS
** BEALE AFB (AIR FORCE)			
SITE	1	DISCHARGE AREA B	RI
SITE	2	LANDFILL 3	RI
SITE	3	DISCHARGE AREA 1	RI
SITE	4	PHOTO WWTP	RI
SITE	5	PHOTO WASTE INJ. WELL	RI

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
 INSTALLATION RESTORATION PROGRAM
 (FY 86)**

CALIFORNIA

Site Name		Description	Project
SITE	6	FPTA 1&2	RI
SITE	7	BATTERY SHOP DRY WELL	RI
SITE	8	DISCHARGE AREA 3	RI
SITE	9	LANDFILL 2	RI
SITE	10	DISCHARGE AREA 4	RI
SITE	11	DISCHARGE AREA 6	RI
SITE	12	DISCHARGE AREA 9	RI
SITE	13	DISCHARGE AREA 5	RI
SITE	14	DISCHARGE AREA 7	RI
SITE	15	DISCHARGE AREA 10	RI
SITE	16	LANDFILL 1	RI
SITE	17	ORDINANCE DISPOSAL	RI
SITE	18	BEST SLOUGH	RI
SITE	19	POL TANK FARM	RI
** CASTLE AFB (AIR FORCE)			
SITE	1	TCE	RI
SITE	2	LF 1	RI/RA
SITE	3	FPTA 1	RI
SITE	4	FUEL SPILL 1	RI
SITE	5	FUEL SPILL 4	RI
SITE	6	FPTA 2	RI
SITE	7	TCE SITE 5	RI
SITE	8	TCE SITE 7	RI
SITE	9	FUEL SPILL 2&3	RI
SITE	10	FPTA 3	RI
SITE	11	LANDFILL 2	RI
SITE	12	LANDFILL 3	RI
SITE	13	LANDFILL 4	RI
SITE	14	LANDFILL 5	RI
SITE	15	DISCHARGE AREA 1	RI/RA
SITE	16	DISCHARGE AREA 2	RI
SITE	16	DISCHARGE AREA 3	RI
SITE	17	DISCHARGE AREA 4	RI/RA
SITE	18	DISCHARGE AREA 5	RI
SITE	19	DISCHARGE AREA 6	RI
SITE	20	DISCHARGE AREA 7	RI
SITE	21	DISCHARGE AREA 8	RI/RA
SITE	22	PCB SPILLS 1,2,AND 3	RI
SITE	23	PCB SPILL 4	RI
SITE	24	PCB SPILL 5	RI
SITE	25	PCB SPILL 6	RI
SITE	26	PCB SPILL 7	RI
SITE	27	PCB SPILL 8	RI
SITE	28	TCE SITE 1	RI
SITE	29	CHEMICAL DISPOSAL PIT NO 4	RI
** EDWARDS AFB (AIR FORCE)			
SITE	1	TRENCHES AND PITS	RA
SITE	2	BLDG 1404 LEAKING FUEL TANKS	RI/FS

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
 INSTALLATION RESTORATION PROGRAM
 (FY 86)**

CALIFORNIA

Site Name		Description	Project
SITE	3	BLDG 1928	RI/FS
SITE	14	MAIN BASE TOXIC WASTE DISPOSAL	RI/RA
SITE	17	ABANDONED MAIN BASE SANITARY LANDFILL	RI/RA
SITE	18	ACTIVE MAIN BASE SANITARY LANDFILL	RI/RA
SITE	19	SOUTH BASE WASTE POL STORAGE PIT	RI/RA
SITE	20	BERYLLIUM CONTAMINATED EARTH PILE	RI
SITE	21	INDUSTRIAL WASTE POND	RI
SITE	21	NPL AREA (ROCKETDYNE AREA)	RI
SITE	22	RPL SANITARY LANDFILL	RI
SITE	23	FPTA	RI
SITE	24	SOUTH BAE AREA	RI
SITE	25	JP-4 FUEL LINE	RI
SITE	26	BLDG 1836	RI
SITE	28	DRUM STORAGE SUBSITE 1B	RI
SITE	28	ACID PIT SUBSITE 1C	RI
SITE	30	DRUM TRECHES SUBSITE 1D	RI
SITE	31	DEBRIS DUMP SUBSITE 1E	RI
SITE	32	BLDG 1062 UNDERGROUND MOGAS STORAGE	RI
SITE	33	ABANDONED TANKS	RI
** GEORGE (AIR FORCE)			
SITE	1	DISPOSAL SITE	RI
SITE	2	RADIOACTIVE/TOXIC DISPOSAL	RI
SITE	3	STARTER CARTRIDGE DISPOSAL ARE	RI
SITE	4	STREET SWEEPING DIS.	RI
SITE	5	ORIGINAL BASE LANDFILL	RI
SITE	6	BASE LANDFILL	RI
SITE	7	M-2 MUNITIONS DISP.	RI
SITE	8	IND. OUTFALL DITCH 6	RI
SITE	9	PEST. AND PAINT BURIAL	RI
SITE	10	ACID AND OIL BURIAL	RI
SITE	11	PEST. AND OIL BURIAL	RI
SITE	12	L-13 BASE LANDFILL	RI
SITE	13	S-4 FUEL AND OIL BURIAL	RI
SITE	14	S-5 FDTA	RI
SITE	15	S-6 ABANDONED FDTA	RI
SITE	16	S-19 TRANSFORMER STORAGE	RI
SITE	17	S-20 INDUST. OUTFLL DTCH & STRM DRN	RI
SITE	18	S-21 STP PERCOLATION PONDS	RI
SITE	19	S-22 FRENCH DRAIN	RI
SITE	20	S-23 FRENCH DRAINS	RI
SITE	21	S-25 SLUDGE DRYING BEDS	RI
** LOS ANGELES (AIR FORCE)			
SITE	1	FUEL SPILL SITE	RI
SITE	2	PESTICIDE DISPOSAL SITE	FS
** MARCH (AIR FORCE)			
SITE	1	UNCONFIRMED SOLVENT DISPOSAL	RI
SITE	2	LF-5	RI

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
 INSTALLATION RESTORATION PROGRAM
 (FY 86)**

CALIFORNIA

Site Name		Description	Project
SITE	3	LNDFL 3	RI
SITE	4	TCE CONTAMINATION	RI
SITE	5	TCE CONTAMINATION	RI
SITE	6	LNDFL 6	RI
SITE	7	FPTA 2	RI
SITE	8	AIRCRAFT ISO. AREA	RI
SITE	9	BULK FUEL STOR.	RI
SITE	10	WASTE OIL PIT	RI
SITE	11	MAIN OIL/WATER SEPERATION	RI
SITE	12	FLIGHTLINE DRAINAGE	RI
SITE	13	FLIGHT LINE SHOP	RI
SITE	14	CE STOR YD	RI
SITE	15	LNDFL 1	RI
SITE	16	MUNITIONS RESIDENCE BURIAL	RI
SITE	17	LANDFILL 2	RI
SITE	18	LANDFILL 7	RI
SITE	19	FPTA 1	RI
SITE	20	FPTA 3	RI
SITE	21	E. SLUDGE DRYING BEDS	RI
SITE	22	W. SLUDGE DRYING BEDS	RI
SITE	23	EFFLUENT POND	RI
SITE	24	CONDURE EFFLUENT POND	RI
SITE	25	SWIMMING POOL FILL	RI
SITE	26	LIQ. FUEL PUMP STATION OVERFLOW	RI
SITE	27	TANK TRUCK SPILL	RI
SITE	28	WTP SLUDGE	RI
SITE	29	ENGINE TEST CELL	RI
SITE	30	BLDG 422 POL TANKS	RI
SITE	33	BLDG 422 UNDERGROUND POL TANKS	RI
SITE	35	ZONE 1 MONITORING	RI
SITE	36	TCE CONTAM.	RI
** MATHER AFB (AIR FORCE)			
SITE	1	DRAINAGE DITCH NO. 3	RI
SITE	2	OFF BASE WATER SUPPLY 3 RES	RA
SITE	7	"7100" AREA DISPOSAL	RI
SITE	20	ACW SITE NPL-12	RI
** MCCLELLAN (AIR FORCE)			
SITE	1	BURNING/BURIAL PIT AREA D	RI/RA
SITE	2	SLUDGE/OIL PIT AREA D	RI/RA
SITE	3	SLUDGE/BURNING/BURIAL PIT AREA D	RI/RA
SITE	4	SLUDGE/OIL PIT AREA D	RI/RA
SITE	5	SLUDGE/OIL SOLVENT BURN PIT AREA D	RI/RA
SITE	6	OIL BURN PIT AREA D	RI/RA
SITE	7	SLUDGE/OIL PIT AREA C	RI/RA
SITE	8	SLUDGE BURIAL PIT AREA C	RI/RA
SITE	9	BURIAL PIT AREA C	RI/RA
SITE	10	BURIAL PIT AREA C	RI/RA
SITE	11	BURIAL PIT AREA C	RI/RA

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

CALIFORNIA

Site Name	Description	Project
SITE 12	BURIAL PIT AREA C	R1/R4
SITE 13	BURIAL PIT PLTNG WASTE/SLUDGE AREA C	R1/R4
SITE 14	BURIAL PIT AREA C	R1/R4
SITE 15	SODIUM VALVE TRENCH AREA C	R1/R4
SITE 16	SODIUM VALVE TRENCH AREA C	R1/R4
SITE 17	BURIAL PIT AREA C	R1/R4
SITE 18	BURIAL PIT AREA C	R1/R4
SITE 19	BURIAL PIT AREA C	R1/R4
SITE 20	SLUDGE/OIL PIT AREA C	R1/R4
SITE 21	SLUDGE/OIL PIT AREA C	R1/R4
SITE 22	BURNING/BURIAL PIT AREA C	R1/R4
SITE 23	BURIAL PIT SW OF AREA C	R1/R4
SITE 24	BURNING/BURIAL PIT NEAR AREA B	R1/R4
SITE 25	BURIAL PIT AREA A	R1/R4
SITE 26	SLUDGE PIT AREA D	R1/R4
SITE 27	SODIUM VALVE TRENCH AREA D	R1/R4
SITE 28	CREEK DEBRIS SLUDGE PIT AREA C	R1/R4
SITE 29	SCRAP MATERIAL BURNER AREA C	R1/R4
SITE 30	1155TH SURFACE DISPOSAL SITE AREA B	R1/R4
SITE 31	REFUSE INCINERATORS SOUTH OF AREA C	R1/R4
SITE 32	HAZARDOUS WASTE STORAGE AREA C	R1/R4
SITE 33	INDUSTRIAL SLUDGE LAND FARM AREA D	R1/R4
SITE 34	WASTE SOLVENT STORAGE TANKS AREA A	R1/R4
SITE 35	SCRAP METAL BURIAL PIT AREA B	R1/R4
SITE 36	DRUM STORAGE AREA B	R1/R4
SITE 37	BURIAL PIT AREA A	R1/R4
SITE 38	ENGINE REPAIR SHOP AREA A	R1/R4
SITE 39	BURNING/BURIAL PIT AREA A	R1/R4
SITE 40	INDUSTRIAL SLUDGE DRYING BEDS AREA A	R1/R4
SITE 41	BURIAL PIT AREA C	R1/R4
SITE 42	OIL/BURNING PITS AREA C	R1/R4
SITE 43	BURIAL PIT AREA C	R1/R4
SITE 44	SURFACE STORAGE AREA NORTH OF BASE	R1/R4
SITE 45	PAINT BURIAL PIT NORTH OF BASE	R1/R4
SITE 46	OLD SALVAGE YARD OPERATION AREA NORTH	R1/R4
SITE 47	BLDG 666 AREA B	R1/R4
SITE 48	WASTE TREATMENT AREA C	R1/R4
SITE 49	BURIAL PIT AREA C	R1/R4
SITE 50	SETTLING POND AREA C	R1/R4
SITE 51	SETTLING POND AREA C	R1/R4
SITE 52	BURIAL PIT AREA C	R1/R4
SITE 53	SETTLING POND AREA C	R1/R4
SITE 54	SURFACE SITE AREA C	R1/R4
SITE 55	SURFACE SITE AREA C	R1/R4
SITE 56	SURFACE SITE AREA C	R1/R4
SITE 57	PIT AREA C	R1/R4
SITE 58	BURIED TANK AREA C	R1/R4
SITE 59	BURIED TANK AREA C	R1/R4
SITE 60	PONDS AREA C	R1/R4
SITE 61	ACID PIT AREA C	R1/R4

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
 INSTALLATION RESTORATION PROGRAM
 (FY 86)**

CALIFORNIA

Site Name	Description	Project
SITE 62	CYANIDE PIT AREA C	RI/RA
SITE 63	DITCH AREA C	RI/RA
SITE 65	DITCH AREA C	RI/RA
SITE 66	WASTE POND AREA C	RI/RA
SITE 67	WASTE PIT AREA C	RI/RA
SITE 68	SLUDGE POND	RI/RA
SITE 69	WASTE PIT AREA C	RI/RA
** NORTON AFB (AIR FORCE)		
SITE 1	LANDFILL 1	RI
SITE 2	LOW LEVEL RADIOACTIVE WASTE BURIAL	RI
SITE 3	INDUSTRIAL WASTE LAGOONS	RI
SITE 4	BLDG 723	RA
SITE 5	WASTE PIT 1	RI
SITE 6	WASTE PIT 2	RI
SITE 7	WASTE PIT 3	RI
SITE 8	WASTE PIT 4	RI
SITE 9	FPTA 2	RI
SITE 10	OIL SPILL AREAS	RI
SITE 12	IWTP SLDG DRYING BEDS	RI
SITE 13	PCB SPILL	RI
SITE 14	CHEMICAL SPILL 5	RI
SITE 15	FUEL SLUDGE DISPAAVS/DAVA EVAP BASIN	RI
SITE 16	WASTE DRUM STORAGE 1	RI
SITE 17	WASTE DRUM STORAGE 3	RI
SITE 18	AVGAS SPILL	RI
** TRAVIS (AIR FORCE)		
SITE 1	STP SLUDGE DISPOSAL	RI
SITE 2	OLD SPILLAGE	RI
SITE 3	STP INACTIVE OXIDATION POND	RI
SITE 4	FPTA 1	RI
SITE 5	FPTA 2	RI
SITE 6	FPTA 3	RI
SITE 7	FPTA 4	RI
SITE 8	DISPOSAL SITE 1	RI
SITE 9	DISPOSAL SITE 3	RI
SITE 10	JP 4 SPILL	RI/RA
SITE 11	LANDFILL 1	RI
SITE 12	LANDFILL 2	RI
SITE 13	LANDFILL 3	RI
SITE 14	SOLVENT SPILL	RI
SITE 20	OIL SPILL	RI
SITE 30	UNION CIRCLE STORM SEWER SYSTEM	RI
SITE 31	RD 1 RADIOACTIVE WASTE BURIAL	RI
SITE 32	RD 2 RADIOACTIVE WASTE BURIAL	RI
SITE 33	UNDERGROUND STORAGE TANKS	HALTM
** VANDENBERG AFB (AIR FORCE)		
SITE 1	CS-2	RI

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 88)**

CALIFORNIA

Site Name	Description	Project
SITE 2	LF 2	RI
SITE 3	LF-5	RI
SITE 4	SITE 3 CHEMICAL DISPOSAL	RI
SITE 5	SITE 4 CHEMICAL DISPOSAL	RI
SITE 6	AUTA	RI
SITE 7	SITE 5 CHEMICAL DISPOSAL	RI
SITE 8	SITE 6 CHEMICAL DISPOSAL	RI
SITE 9	SITE 7 CHEMICAL DISPOSAL	RI
SITE 10	SITE 8 CHEMICAL DISPOSAL	RI
SITE 11	SITE 9 CHEMICAL DISPOSAL	RI
SITE 12	LF-3/4	RI
SITE 13	SITE 1 CHEMICAL DISPOSAL	RI
SITE 14	FTA-1	RI
SITE 15	LF-1	RI
SITE 16	SITE DRUM DISPOSAL	RI
SITE 17	LF-11	RI
** DDTC TRACY (DEFENSE LOGISTICS AGENCY)		
SITE 1	ON-SITE SOIL ANALYSIS, WELLS, BORINGS, ETC.	RUFS
** DFSC OZOL/VINE HILL (DEFENSE LOGISTICS AGENCY)		
SITE 3	OFF-SITE CLEAN-UP	RUFS
** DFSP OZOL (DEFENSE LOGISTICS AGENCY)		
SITE 1	CONTRACT ADMIN.	RUFS
** DFSP SAN PEDRO (DEFENSE LOGISTICS AGENCY)		
SITE 1	TANK FARM-WELLS, BORINGS AND ANALYSIS	RUFS
SITE 2	WHARF-WELLS, BORINGS AND ANALYSIS	RUFS

COLORADO

Site Name	Description	Project
** PUEBLO DEPOT ACTIVITY (ARMY)		
SITE 1	SEVERAL SITES	RUFS
** ROCKY MOUNTAIN ARSENAL (ARMY)		
	REMEDIAL INVESTIGATIONS	RUFS
	ENDANGERMENT ASSESSMENT	RUFS
	FEASIBILITY STUDY	RUFS
	DESIGN AND EXECUTION (REMOVAL)	RUFS
	OPERATION AND MAINT	RUFS
	PROGRAM SUPPORT	RUFS
** AFP PJXS WATERTON (AIR FORCE)		
SITE 1	SUSPECTED LANDFILL	RI
SITE 2	DRAINAGE FLUMES	RI
SITE 3	T-8A CONTAMINATION POND	RI

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
 INSTALLATION RESTORATION PROGRAM
 (FY 86)**

COLORADO

Site Name	Description	Project
SITE 4	EPL BLDG T 6	RI
SITE 5	HYDRAZINE SPILL	RI
SITE 6	DEISEL TANK T 23	RI
SITE 7	D 1 LANDFILL	RI
SITE 8	TEST FAC STORAGE	RI
SITE 9	NO 6 DIESEL FUEL BELOW D 1	RI
** BUCKLEY ANG (AIR FORCE)		
SITE 1	FIRE TRAINING AREA NO 1	RI/FS
SITE 2	FITE TRAINING AREA NO 2	RI/FS
SITE 3	FIRE TRAINING AREA NO 3	RI/FS
SITE 4	FIRE TRAINING SITE 5	RI/FS
SITE 5	JP 4 SUSPECTED UNDERGROUND LINE LEAK	RI/RA
SITE 6	BASE DUMP/IN A ZONE W/OIL PIT	RI/FS
** LOWRY AFB (AIR FORCE)		
SITE 1	D 1	FS
SITE 2	FT 1	FS
SITE 3	S 2	FS
SITE 4	S 3	FS
SITE 5	S 5	FS
SITE 6	S 10	FS
SITE 7	FT 2	FS
SITE 8	SP 1	FS
SITE 9	D 2	FS
SITE 10	BLDG 1010	FS
SITE 11	FAC 369 ABANDONED UST	FS
SITE 12	FORMER SERVICE STATION 3EA ABANDONED UST	FS
SITE 13	POL STORAGE YARD 13EA ABANDONED UST	RI

CONNECTICUT

Site Name	Description	Project
** NSB NEW LONDON (NAVY)		
SITE 1	OPDO AREA	RI/FS
SITE 2	AREA A LNOFL	RI/FS
SITE 3	OVER BANK DISPOSAL AREA	RI/FS
SITE 4	OBDANE	RI/FS

DELAWARE

Site Name	Description	Project
** DOVER AFB (AIR FORCE)		
SITE 1	DD 1	RA
SITE 2	T 1	RA
SITE 4	D 4	RA
** GREATER WILMINGTON ANG (AIR FORCE)		
SITE 1	AREA ADJCT TO POL PUMPHOUSE BLDG 2701	RI/FS

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

DELAWARE

Site Name	Description	Project
SITE 2	AREA DOWN GRADE OF REFUELER PARKING AREA	RVFS
SITE 3	SOUTH AND WEST EDGE OF AC PARKING AREA	RVFS
SITE 4	SE DRAINAGE DITCH	RVFS

FLORIDA

Site Name	Description	Project
** WEST PALM BEACH (ARMY)		
SITE 1	ANNEX I AND II	RA
** NAS CECIL FIELD (NAVY)		
SITE 1	OLD LNOFL	RVFS
SITE 2	GREASE PITS	RVFS
SITE 3	DISPOSAL AREA NORTHWEST	RVFS
SITE 4	OLD FIRE FIGHTING TRAINING AREA	RVFS
SITE 5	HW/FIRE FIGHTING TRAINING AREA	RVFS
SITE 7	GOLF COURSE PESTICIDE DISP.	RVFS
SITE 8	AIMD SEEPAGE PIT	RVFS
SITE 10	OIL SLUDGE DISP. PIT SW	RVFS
SITE 11	RECENT LNOFL	RVFS
SITE 16	OIL SLUDGE PIT	RVFS
** NAS JACKSONVILLE (NAVY)		
SITE 1	JP-4 EXPLOSION FUEL FARM	RVFS
SITE 2	HANGAR BUILDING 101	RVFS
SITE 3	OLD TEST CELL BLDG	RVFS
SITE 4	BATTERY SHOP	RVFS
SITE 5	SOLVENT AND PAINT SLUDGE	RVFS
SITE 6	STORM SEWER DISCHARGE BLACK POINT	RVFS
SITE 7	SHORELINE FILL	RVFS
SITE 8	OLD DISPOSAL AREA	RVFS
SITE 9	RADIUM PART WASTE DISPOSAL PIT	RVFS
SITE 10	(OTHER) GLASS BEAD DISPOSAL AREA	RVFS
SITE 11	(NFO) OIL POND AND LAND SPREADING AREA	RVFS
SITE 12	OLD MAIN REGISTERED DISPOSAL AREA	RVFS
SITE 13	RADIOACTIVE WASTE FILL AREA	RVFS
SITE 14	PCB STORAGE	RVFS
SITE 15	(NAS) PRESENT FIREFIGHTING TRAINING AREA	RVFS
SITE 15	OLD GAS STATION	RVFS
SITE 15	FIRE PIT	RVFS
SITE 16	PINE TREE PLANTING	RVFS
SITE 16	ORGANIC DISPOSAL AREA	RVFS
SITE 17	OLD DRUM LOT	RVFS
SITE 18	BASE LANDFILL	RVFS
SITE 19	TRANSFORMER BURIED AREA	RVFS
SITE 20	INDUSTRIAL WASTEWATER DISCHARGE	RVFS
** NAS KEY WEST (NAVY)		
SITE 1	TRUMAN ANNEX DISP AREA	RVFS

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

FLORIDA

Site Name		Description	Project
SITE	2	TRANSFORMER OIL DISP AREA	RI/F/S
SITE	3	NORTH LANDFILL	RI/F/S
SITE	4	SOUTH LNDFL	RI/F/S
SITE	5	TANK FAHM	RI/F/S
SITE	6	FIRE FIGHTING TRAINING AREA	RI/F/S
SITE	7	TRUMAN ANNEX ODT MIXING AREA	RI/F/S
SITE	8	BOCA CHICA OPEN DISP AREA	RI/F/S
SITE	9	BOCA CHICA ODT MIXING AREA	RI/F/S
** NAS PENSACOLA (NAVY)			
SITE	1	SAN. LNDFL	RI/F/S
SITE	2	WATERFRONT SEDIMENTS	RI/F/S
SITE	3	CRASH CREW TRAINING AREA	RI/F/S
SITE	4	NAVY YARD DISPOSAL AREA	RI/F/S
SITE	5	N. CHEVALIER FIELD DISPOSAL	RI/F/S
SITE	6	PESTICIDE RINSEATE AREA	RI/F/S
SITE	7	TRANSFORMER STOR	RI/F/S
SITE	8	FUEL FARM PIPELINE LEAK	RI/F/S
SITE	9	SLUDGE DISPOSAL AT FUEL TANK	RI/F/S
SITE	10	RFUELER REPAIR SHOP FUEL DISPOSAL	RI/F/S
SITE	11	CHEVALIER FIELD PIPELINE LEAK	RI/F/S
SITE	12	SUP DEPT OUTSIDE STOR	RI/F/S
SITE	13	RADIAL DIAL SHOP SEWER	RI/F/S
SITE	14	SOIL S. OF BLDG 3460	RI/F/S
SITE	15	BLDG 649/755	RI/F/S
SITE	16	BLDG 648	RI/F/S
SITE	17	IND. SLUDGE DRYING BEDS	RI/F/S
SITE	18	WWTP PONDS	RI/F/S
SITE	19	BLDG 3557	RI/F/S
** NAS WHITING FIELD (NAVY)			
SITE	1	NW DISPOSAL AREA	RI/F/S
SITE	2	UNDERGROUND WASTE SOLVENT STOR AREA	RI/F/S
SITE	3	NORHT AVGAS TANK SLUDGE DISPOSAL AREA	RI/F/S
SITE	4	BATTERY ACID SEEPAGE PIT	RI/F/S
SITE	5	OPEN DISPOSAL AND BURNING AREA	RI/F/S
SITE	6	S TRANSFORMER OIL DISPOSAL AREA	RI/F/S
SITE	7	S AVGAS TANK SLUDGE DISPOSAL AREA	RI/F/S
SITE	8	AVGAS FUEL SPILL AREA	RI/F/S
SITE	9	WASTE FUEL DISPOSAL AREA	RI/F/S
SITE	10	SE OPEN DISPOSAL AREA A	RI/F/S
SITE	11	SE OPEN DISPOSAL AREA B	RI/F/S
SITE	12	TETRAETHYL LEAD DISPOSAL AREA	RI/F/S
SITE	13	LANDFILL	RI/F/S
SITE	14	SHORT TERM SANITARY LANDFILL	RI/F/S
SITE	15	SW LANDFILL	RI/F/S
** NCSC PANAMA CITY (NAVY)			
SITE	1	ORIG DISPOSAL SITE	RI/F/S
SITE	2	BURN AND LNDFL AREA	RI/F/S

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
 INSTALLATION RESTORATION PROGRAM
 (FY 86)**

FLORIDA

Site Name		Descriptions	Projects
SITE	3	OLD FIRE TRAINING AREA	RI/FIS
SITE	4	UNDERGROUND OIL CONTAINER AREA	RI/FIS
SITE	5	PAINT EQUIP. CLEANING AREA	RI/FIS
SITE	6	BURN DISPOSAL AREA	RI/FIS
SITE	8	SOLVENT DISP BEHIND B40	RI/FIS
** NS MAYPORT (NAVY)			
SITE	1	LNOFL A	RI/FIS
SITE	2	WASTE OIL PIT	RI/FIS
SITE	4	FUEL SPILL AREA	RI/FIS
SITE	5	MERC./OILY WASTE SPILL	RI/FIS
SITE	6	LNOFL D	RI/FIS
SITE	8	LNOFL E	RI/FIS
SITE	9	LNOFL F	RI/FIS
SITE	14	LNOFL B	RI/FIS
** NTC ORLANDO (NAVY)			
SITE	1	NORTH FIELD LNOFL	RI/FIS
SITE	3	MCCOY LNOFL	RI/FIS
SITE	6	OPDO MCCOY ANNEX	RI/FIS
SITE	8	NTC PESTICIDE BLDG	RI/FIS
SITE	9	LAKE BALDWIN	RI/FIS
** CAPE CANAVERAL (AIR FORCE)			
SITE	1	LANDFILL 1	RI
SITE	2	LANDFILL 2	RI
SITE	3	CHEMICAL DISPOSAL 9	RI
SITE	4	CHEMICAL DISPOSAL 6	RI
SITE	5	CHEMICAL DISPOSAL 7	RI
SITE	6	CHEMICAL DISPOSAL 2	RI
SITE	7	CHEMICAL DISPOSAL 12	RI
SITE	8	FUEL SPILL	RI
SITE	9	FDTA 1	RI
SITE	10	FDTA 2	RI
** EGLIN AFB (AIR FORCE)			
SITE	1	A-20	RI
SITE	2	D9	RI
SITE	3	T3	RI/RA
SITE	4	HERO FACILITY	RI
SITE	5	HOBBY SHOP	RI
SITE	6	FIRE TRAINING AREA	RI
SITE	7	FIRE TRAINING AREA-DUKE	RI
SITE	8	FIRE TRAINING AREA-EGLIN FIELD	RI
SITE	9	MOTOR POOL CONTAMINATION	RI
SITE	10	HURLBURT FIELD SANITARY LANDFILL	RI
SITE	11	TI HERBICIDE TEST GRID	RI
SITE	12	D-1 EGLIN MAIN LANDFILL	RI
SITE	13	D-2 EGLIN MAIN LANDFILL	RI
SITE	14	D-3 EGLIN MAIN LANDFILL	RI

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
 INSTALLATION RESTORATION PROGRAM
 (FY 86)**

FLORIDA

Site Name	Description	Project
SITE 15	FIELD 2 NORTH LANDFILL	RI
SITE 16	D-17 FIELD 2 DRUM DISPOSAL AREA	RI
SITE 17	D-4 DISPOSAL PIT NEAR SKEET RANGE	RI
SITE 18	A-19 DRUM DISPOSAL AREA	RI
SITE 19	RECIEVER AREA LANDFILL	RI
SITE 20	D-18 LANDFILL	RI
SITE 21	D-26 LANDFILL	RI
SITE 22	D-29 LANDFILL	RI
SITE 23	D-30 LANDFILL	RI
SITE 24	D-31 LANDFILL	RI
SITE 25	D-32 LANDFILL	RI
** JACKSONVILLE ANG (AIR FORCE)		
SITE 1	AREA NEAR HEATING PLANT	RI/FS
SITE 2	OWS INLETS AT DOWNGRADE END OF AC PARKIN	RI/FS
SITE 3	GROUND BENEATH 125TH FIG PARKING APRON	RI/FS
SITE 3	FIRE TRAINING AREA	RI/FS
SITE 5	OVERFLOWING OWS AT HUSH HOUSE	RI/FS
SITE 6	AREA NEAR OWS/VEH MAINT. BLDG	RI/FS
** MACDILL AFB (AIR FORCE)		
SITE 4	FORMER FUEL STORAGE AREA	RD
SITE 5	LANDFILL AT DOG KENNEL	RI
SITE 7	LANDFILL AT CE WASHRACK	RI
SITE 8	LANDFILL AT EOD EAST	RI
SITE 9	LANDFILL AT EOD WEST	RI
SITE 10	WEST LANDFILL	RI
SITE 11	CURRENT LANDFILL	RI
SITE 12	CHEMICAL MUNITIONS BURIAL SITE	RI
SITE 13	CREOSOTE PIT	RI
SITE 14	FUEL TANK FARM	RI
SITE 15	DRUM STORAGE AREA	RI
SITE 16	FIRE TRAINING AREA	RI
SITE 17	FORMER FUEL STORAGE AREA NEXT TO AGE	RI
SITE 18	OLD LANDFILL	RI
SITE 19	AP7 CURRENT LANDFILL	RI
SITE 20	ARMY TEST SITE	RI
SITE 21	AP11 PESTICIDE RINSE AREA	RI
SITE 22	FORMER FUEL STORAGE AREA 2	RI
SITE 23	AVGAS SLUDGE WEATHERING 17	RI
** PATRICK AFS (AIR FORCE)		
SITE 1	LANDFILL 1	RI
SITE 2	SITE 3 CHEMICAL DISPOSAL SITE	RI/FS
SITE 3	CHEMICAL DISPOSAL SITE 6	RI
SITE 4	LANDFILL 4	RI
SITE 5	CHEMICAL DISPOSAL SITE 7	RI
SITE 6	CHEMICAL DISPOSAL SITE 1	RI
SITE 7	CHEMICAL DISPOSAL SITE 2	RI
SITE 8	LANDFILL 3	RI

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

FLORIDA

Site Name	Description	Project
SITE 9	CHEMICAL DISPOSAL SITE 4	RI
SITE 10	CHEMICAL DISPOSAL SITE 5	RI
SITE 11	FPTA 1	RI
SITE 12	FPTA 2	RI
SITE 13	POL BULK STORAGE	FS
SITE 14	PCB SPILL 2	RI
SITE 15	LANDFILL 5A	RI
** TYNDALL AFB (AIR FORCE)		
SITE 1	SEWAGE PLANT LANDFILL	RI
SITE 5	SPRAY FIELD LANDFILL	RI
SITE 6	SOUTHEAST RUNWAY BURIAL SITE	RI
SITE 7	ZONE 8 "6000" AREA LANDILL	RI
SITE 8	ZONE 1 POL AREA A FUEL SUPPLY	RI
SITE 9	ZONE 9 POL AREA B FUEL SUPPLY	RI
SITE 11	ZONE 6 HIGHWAY 98 FDTA	RI
SITE 12	ZONE 4 AAFES SERVICE STATION	RI
SITE 13	ZONE 5 SMALL ARMS REPAIR	RI
SITE 14	ZONE 2 LYNN HAVEN DFSP	RI
SITE 15	ZONE 7 SE EXTENSION BURIAL SITE	RI
** TYNDALLAFB (AIR FORCE)		
SITE 10	ZONE 10 SHELL BANK FDTA	RI

GEORGIA

Site Name	Description	Project
** MCLB ALBANY (NAVY)		
SITE 2	RUBBLE DISPOSAL AREA	RI/FS
SITE 3	W. DISPOSAL AREA	RI/FS
SITE 4	LONG-TERM LNDFL	RI/FS
SITE 5	IND. DISCHARGE DRAINAGE DITCH	RI/FS
SITE 6	PENTACHLOROPHENOL DIP TANK	RI/FS
SITE 7	CLEANING TANK BLDG 572	RI/FS
** MOODY AFB (AIR FORCE)		
SITE 1	SOUTHWEST LANDFILL	RI
SITE 2	DDT BURIAL SITE	RI/RA
SITE 3	LILY PAD POND FILL SITE	RI
SITE 12	NORTH POL TANK FARM	RI/FS
** ROBBS AFB (AIR FORCE)		
SITE 1	LANDFILL 4	RI
SITE 2	FTA 2	RI
SITE 3	SLUDGE LAGOON	RI
SITE 4	LANDFILL 3	RI
SITE 5	DDT SITE	RI
SITE 7	UST REMOVAL	RI

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
 INSTALLATION RESTORATION PROGRAM
 (FY 88)**

GEORGIA

Site Name	Description	Project
SITE 10	LANDFILL 1	RI
SITE 11	LANDFILL 2	RI
SITE 20	FTA 4	RI
SITE 20	JP-4 SPILL (1965)	RI/FS
SITE 21	PCB SPILL	RI
SITE 22	FTA 1	RI
SITE 23	FTA 3	RI
SITE 24	RADIOACTIVE WASTE DISPOSAL SITE	RI
SITE 25	HAZ WASTE DISPOSAL SITE	RI
SITE 26	LABORATORY CHEM. BURIAL	RI

GUAM

Site Name	Description	Project
** NAS AGANA (NAVY)		
SITE 1	LNDFL 2	RI/FS
SITE 2	NAVMAG-R0D FORMER DEMO RANGE	RI/FS
SITE 3	SANITARY LANDFILL	RI/FS
SITE 4	DRAINAGE BURN HOLDING POND	RI/FS
SITE 5	LNDFL 1	RI/FS
** PWC GUAM (NAVY)		
SITE 2	PCB TRANSFORMER FILTER AREA	RI/FS
** ANDERSEN AFB (AIR FORCE)		
SITE 1	SITE 1 CHEMICAL DISPOSAL	RI
SITE 2	RMW CENTRAL SOIL	RI
SITE 3	DRUM STORAGE AREA	RI
SITE 4	SITE 2 CHEMICAL DISPOSAL	RI
SITE 5	SITE 3 CHEMICAL DISPOSAL	RI
SITE 6	SITE 4 CHEMICAL DISPOSAL	RI
SITE 7	DRAINAGE STORAGE AREA 2	RI
SITE 8	HAZARDOUS WASTE STORAGE AREA 1	RI
SITE 9	FTA 1	RI
SITE 10	FIREFIGHTER TRAINING AREA 2	RI
SITE 11	LANDFILL 1	RI
SITE 12	LANDFILL 10	RI
SITE 13	LANDFILL 13	RI
SITE 14	LANDFILL 16	RI
SITE 15	LANDFILL 2	RI
SITE 16	LANDFILL 22	RI
SITE 17	LANDFILL 25	RI
SITE 18	LANDFILL 3	RI
SITE 20	ZONE 1 STORMWATER DRAINAGE SYSTEM	RI
SITE 21	ZONE 2 STORMWATER DRAINAGE SYSTEM	RI
SITE 23	ZONE 3 STORMWATER DRAINAGE SYSTEM	RI

HAWAII

Site Name	Description	Project
** MCAS KANEHOE (NAVY)		
SITE 1	H-3 LNDFL	RI/FS

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86).**

HAWAII

Site Name	Description	Project
** NAS BARBERS POINT (NAVY)		
SITE 1	SANITARY LNDFL	RI/FS
SITE 2	CORAL SEA RD CORAL PIT	RI/FS
SITE 3	ORDY POND	RI/FS
** HICKAM AFB (AIR FORCE)		
SITE 1	TRI-SERVICES LANDFILL	RI
SITE 5	CANAL STORM DRAINAGE SYSTEM	RI
SITE 7	SITE 22 KUMUNAU CANAL STORM DRAIN SYSTE	RI
SITE 9	SITE 23 MTR POOL STORM DRAIN SYS	RI
SITE 10	HICKAM SITE 7	RI
SITE 11	HICKAM SITE 13	RI
SITE 12	HICKAM SITE 14	RI
SITE 13	HICKAM SITE 15	RI
SITE 14	HICKAM SITE 19	RI
SITE 15	HICKAM SITE 1	RI
SITE 16	SITE 9 FUEL LEAK	RI
SITE 17	SITE 10 FUEL LEAK	RI
SITE 18	SITE 11 FUEL LEAK	RI
SITE 19	SITE 12 FUEL LEAK	RI
SITE 21	SITE 16 FUEL LEAK	RI
SITE 22	SITE 17 FUEL LEAK	RI
SITE 23	SITE 18 FUEL LEAK	RI
** HICKAM POL (AIR FORCE)		
SITE 1	KIPAPA POL SLUDGE DISPOSAL AND PIPE LEAK	RI
SITE 2	POL PIPELINE SITE 1	RI
SITE 3	POL PIPELINE SITE 10	RI
SITE 4	POL PIPELINE SITE 2	RI
SITE 5	POL PIPELINE SITE 3	RI
SITE 6	POL PIPELINE SITE 4	RI
SITE 7	POL PIPELINE SITE 5	RI
SITE 8	POL PIPELINE SITE 6	RI
SITE 9	POL PIPELINE SITE 8	RI
SITE 10	POL PIPELINE SITE 9	RI
SITE 11	POL PIPELINE LEAK 7	RI
SITE 12	WAINAKALGUA POL ENTIRE SITE	RI
SITE 13	STORAGE SPILL AREAS	RI

IOWA

Site Name	Description	Project
** IOWA AAP (ARMY)		
SITE 2	PINK WATER LAGOON-FORMER LINE 1 IMPOUNDT	RI/FS
SITE 3	INERT LANDFILL	RI/FS
** DES MOINES ANG (AIR FORCE)		
SITE 1	OLD FITE TRAINING AREA	RI

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
 INSTALLATION RESTORATION PROGRAM
 (FY 86)**

IOWA

Site Name	Description	Project
SITE 2	NEW FIRE TRAINING AREA & NO. RUNWAY DRAI	RI
SITE 3	FACILITY 105 VEH. MAINT. FUEL TANK	RI
SITE 5	VEHICLE MAINT. FUEL TANK EXCAVATION	RI

IDAHO

Site Name	Description	Project
** BOISE (AIR FORCE)		
SITE 1	FIRE TRAINING AREA NO. 1	RI/FS
SITE 2	FIRE TRAINING AREA NO. 2	RI/FS
SITE 3	FORMER FENCE POST PRESERVING OPERATION	RI/FS
SITE 4	TAR PIT AREA	RI/FS
** MOUNTAIN HOME AFB (AIR FORCE)		
SITE 1	WASTE OIL DISPOSAL SITE	RI
SITE 2	EXISTING FIRE DEPT. TRAINING AREA	FS

ILLINOIS

Site Name	Description	Project
** JOLIET AAP (ARMY)		
SITE 2	MANUFACTURING AREA	RI/FS
** CHANUTE AFB (AIR FORCE)		
SITE 1	LANDFILL 1	FS
SITE 2	LANDFILL 2	FS
SITE 3	SLUDGE PIT BLDG 932	FS
SITE 4	FPTA 1	FS
SITE 5	FPTA 2	FS
SITE 6	LANDFILL 3	FS
SITE 7	LANDFILL 4	FS
SITE 8	BLDG 2306	FS
SITE 9	BLDG 505	FS
SITE 10	BLDG 937	FS
SITE 11	BLDG 502	FS
SITE 12	BLDG 760	FS
SITE 13	BLDG 51	FS
SITE 14	BLDG 349	FS
SITE 15	BLDG 53	FS

INDIANA

Site Name	Description	Project
** NWSC CRANE (NAVY)		
SITE 1	MINE FILL A AND B	RI/FS
SITE 2	BATTERY SHOP	RI/FS

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
 INSTALLATION RESTORATION PROGRAM
 (FY 86)**

INDIANA

Site Name	Description	Project
SITE 3	BURNING PIT	RI/FS
SITE 4	DEMOLITION AREA	RI/FS
SITE 5	ORDNANCE BURNING GROUNDS	RI/FS
SITE 7	DYE BURIAL GROUNDS	RI/FS
SITE 8	LOAD AND FILL AREA	RI/FS
SITE 9	CAST HIGH EXPLOSIVES FILL	RI/FS
SITE 10	LOAD AND FILL POND	RI/FS
SITE 12	MCCORMISH GROGE	RI/FS
SITE 13	PESTICIDE SHOP B-2189	RI/FS
SITE 14	ROADS AND GROUNDS AREA	RI/FS
SITE 15	ROCKEYE	RI/FS
** FT.WAYNE ANG (AIR FORCE)		
SITE 1	S 1	RI/FS
SITE 2	S 2	RI/FS
SITE 3	S 3	RI/FS
SITE 4	S 4	RI/FS
SITE 5	S 5	RI/FS
** HULMAN ANG (AIR FORCE)		
SITE 1	OLD BLADDER AREA	RI/FS
SITE 2	POWER SUPPRESSOR PAD	RI/FS
SITE 3	VEHICLE BUILDING	RI/FS
SITE 4	POL FILLSTAND AREA	RI/FS

KANSAS

Site Name	Description	Project
** KANSAS AAP (ARMY)		
SITE 1	LAP DEMOLITION AND LANDFILL	RI/FS

KENTUCKY

Site Name	Description	Project
** FORT CAMPBELL (ARMY)		
SITE 2	CAMPBELL AIR FIELD	RI/FS
** FORT KNOX (ARMY)		
SITE 1	POL CONTAMINATED SOIL	RI/RA

LOUISIANA

Site Name	Description	Project
** LOUISIANA AAP (ARMY)		
SITE 1	AREA P	RI/FS
SITE 2	BGS	RI/FS

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

LOUISIANA

Site Name	Description	Project
SITE 3	LANDFILL 3	RI/FS
SITE 4	LANDFILL 8	RI/FS
** NAS NEW ORLEANS (NAVY)		
SITE 6	FUEL TANK STRIPPING BURN AREA	RI/FS
SITE 9	LNDFL AT B 704	RI/FS
SITE 20	FIRE FIGHTING TRAINING AREA	RI/FS
** ENGLAND AFB (AIR FORCE)		
SITE 4	D-15 POL SLUDGE WEATHERING PIT	RI

MASSACHUSETTS

Site Name	Description	Project
** NATICK R&D COMMAND (ARMY)		
SITE 1	FIRE PIT AREA	RA
** HANSCOM AFB (AIR FORCE)		
SITE 1	FIRE TRAINING 1	RI
SITE 2	AAFES SERVICE STATION GASOLINE LEAK	RI
SITE 3	FIRE TRAINING 4	RI
SITE 4	PAINT WASTE DISPOSAL	RI
SITE 5	JET FUEL TANK SLUDGE	RI
SITE 6	SANITARY LANDFILL	RI
SITE 7	FORMER FILTER BED	RI
SITE 8	IWT SYS	RI
SITE 9	SCOTT CIRCLE LANDFILL	RI
SITE 10	ADM BLDG JET FUEL SPILL	RI
SITE 11	MERCURY SPILL	RI
SITE 12	VAR FUEL SPLS(RUNWY&TAXIWAY)	RI
SITE 13	MOTOR POOL SPILL	RI
** OTIS ANG (AIR FORCE)		
SITE 1	SANITARY LANDFILL	RI/RA
SITE 2	CURRENT FIRE FIGHTING TRAINING AREA	RI/RA
SITE 3	AVGAS FUEL TEST DUMP SITE	RI/RA
SITE 4	PETROL/FUEL STORAGE AREA	RI/RA
SITE 5	RAILYARD FUEL PUMPING STATION	RI/RA
SITE 6	FORMER SEWAGE SLUDGE BED 1	RI/RA
SITE 7	R/W AIRCRAFT MAINTENANCE DRAINAGE DITCH	RI/RA
SITE 8	FORMER SLUDGE BED 2	RI/RA
SITE 9	MAIN BASE LANDFILL	RI/RA
SITE 10	AQUA FARM DRAINAGE SWALE	RI/RA
SITE 11	R/W AIRCRAFT MAINTENANCE DRAINAGE DITCH	RI/RA
SITE 12	FORMER MAIN USAF MOTOR POOL	RI/RA
SITE 13	FORMER ENGINE RUN-UP AREA	RI/RA
SITE 14	FUEL LINE LEAK CONTAINMENT AREA	RI/RA
SITE 15	RANGE FUEL LINE LEAK	RI/RA

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

MASSACHUSETTS

Site Name	Description	Project
SITE 16	HANAR 158, AIRCRAFT MAINTENANCE	RI/RA
SITE 17	BLDG 156 VAPOR DEGREASER LEACH PIT	RI/RA
SITE 18	COAL/ASH RUNOFF DRAINAGE DITCH	RI/RA
SITE 19	CURRENT PRODUCT TANKS 100, 101	RI/RA
SITE 20	FORMER USAF/ANG COAL STORAGE YARD	RI/RA
SITE 21	BX AUTOMOBILE SERVICE STATION	RI/RA
SITE 22	TRANSMITTER STATION	RI/RA
SITE 23	HANGAR 3170 AREA	RI/RA
SITE 24	USCG MAINTENANCE SHOPS	RI/RA
SITE 25	HANGAR 128	RI/RA
SITE 26	UTES/BOMARK	RI/RA
SITE 27	SOUTH TRUCK ROAD MOTOR POOL	RI/RA
SITE 28	WEST TRUCK ROAD MOTOR POOL	RI/RA
SITE 29	FORMER REFUELER MAIN. SHOP	RI/RA
SITE 30	WWII MOTOR POOL/TRANSFER POINT	RI/RA
SITE 31	FUEL TRANSFER POINT	RI/RA
SITE 32	FORMER MOGAS STORAGE	RI/RA
SITE 33	FUEL SPILL (RANGE E-3)	RI/RA
SITE 34	CURRENT PRODUCT TANK 115	RI/RA
SITE 35	CURRENT PRODUCT TANK 88	RI/RA
SITE 36	CURRENT PRODUCT TANK 90	RI/RA
SITE 37	CURRENT PRODUCT TANK 108	RI/RA
SITE 38	PESTICIDE SHOP	RI/RA
SITE 39	FORMER FIREFIGHTING TRAINING AREA ZONE 1	RI/RA
SITE 40	FORMER FIRE TRAINING AREA (1956-1958)	RI/RA
SITE 41	FORMER FIRE TRAINING AREA (1948-1956)	RI/RA
SITE 42	NON-DESTRUCTIVE TEST LAB ZONE 1	RI/RA

**** WESTOVER (AIR FORCE)**

SITE 1	SANITARY LANDFILL 8	RI
SITE 2	SANITARY LANDFILL A	RI
SITE 3	CHRISTMAS TREE FDTA	RI
SITE 4	RADIOACTIVE WASTE SITE	RI
SITE 5	NORTH FDTA	RI
SITE 6	STP AREA	RI
SITE 7	FACILITY 900 LEACHING PIT	RI
SITE 8	CURRENT FDTA	RI
SITE 11	BATTERY SHOP LEACHING PIT	RI
SITE 15	INDUSTIAL WASTE TREATMENT PLANT	RI

MARYLAND

Site Name	Description	Project
** ABERDEEN PRVG GRND, ABERDEEN (ARMY)		
SITE 1	J-FIELD	RI/FS
SITE 2	CARROL ISLAND	RI/FS
SITE 3	GRACES ORTS	RI/FS
SITE 4	O-FIELD	RI/FS

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
 INSTALLATION RESTORATION PROGRAM
 (FY 86)**

MARYLAND

Site Name		Description	Project
SITE	5	CANAL CREEK	RI/FS
SITE	6	NIKE SITE	RI/FS
SITE	7	WHITE PHOSPHORUS DISPOSAL	RI/FS
** PHOENIX NIKE (ARMY)			
SITE	1	TOTAL NIKE SITE	RA
** NAS PATUXENT RIVER (NAVY)			
SITE	1	TRANSFORMER STORAGE B516	RI/FS
SITE	6	SLUDGE AT FUEL FARM A/STREAM	RI/FS
SITE	7	HERMANELLE DROP SITE	RI/FS
SITE	8	POND SOUTH OF SUPPLY	RI/FS
SITE	9	FORMER SANITARY LANDFILL	RI/FS
SITE	10	DPDO SALVAGE YD	RI/FS
SITE	11	BLDG 114 DISCHARGES TO DRYWELL	RI/FS
SITE	12	SOLVENT SPILL BEHIND BLDG 114	RI/FS
SITE	13	AREA SOUTH OF BLDG 665	RI/FS
SITE	15	FISHING PT LNDFL	RI/FS
SITE	16	DISP. NEAR POND 1	RI/FS
SITE	17	STOR. AREA FUEL FARM	RI/FS
SITE	18	B111 /110 WASH RACK DRAINS	RI/FS
SITE	19	PEST CONTROL B 841	RI/FS
SITE	20	B 306/CARBONTETRACHLORIDE DISPOSAL	RI/FS
** NIROP CUMBERLAND (NAVY)			
SITE	1	NORTHEN RIVERSIDE WASTE DISPOSAL SITE	RI/FS
SITE	2	PREVIOUS BURNING GROUND	RI/FS
SITE	3	PREVIOUS BURNING GROUND	RI/FS
SITE	4	DEVELOPING SOLUTIONS DISPOSAL AREA	RI/FS
SITE	5	INERT LANDFILL (NO ORDNANCE)	RI/FS
SITE	6	SENSITIVITY TEST AREA SURFACE WATER	RI/FS
** NOS INDIAN HEAD (NAVY)			
SITE	1	BLDG 731 X-RAY COOLING WATER	RI/FS
SITE	5	MERCURY DEPOSITS-BLAZZI PLANT	RI/FS
SITE	8	TOWN GUT	RI/FS
** ANDREWS AFB (AIR FORCE)			
SITE	1	FPA 1	RI
SITE	2	FPA 2	RI
SITE	3	FT-4	RI
SITE	4	SP-2	RI
SITE	5	D-1	RI
SITE	6	D-3	RI
SITE	7	SP-5	RI
SITE	8	DP-1	RI
SITE	9	SP-4	RI
SITE	10	SP-3	RI
SITE	11	WAP-1	RI
SITE	12	SP-6	RI

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

MARYLAND

Site Name	Description	Project
SITE 13	D-4	RI
SITE 14	SP-8	RI

MAINE

Site Name	Description	Project
** NAS BRUNSWICK (NAVY)		
SITE 1	LANDFILL ORION ST(NORTH)	RI/FS
SITE 2	LANDFILL ORION ST (SOUTH)	RI/FS
SITE 3	HW BURIAL AREA	RI/FS
SITE 4	ACID/CAUSTIC PIT	RI/FS
SITE 5	OIL ACID/CAUSTIC PIT	RI/FS
SITE 6	PERIMETER ROAD DISPOSAL SITE	RI/FS
SITE 7	NEPTUNE DR. DISPOSAL SITE	RI/FS

MICHIGAN

Site Name	Description	Project
** PHELPS COLLINS ANG (AIR FORCE)		
SITE 1	FORMER SITE OF HANGAR 9	RI/FS
SITE 2	MOTOR POOL AREA BLDGS 7 & 13	RI/FS
SITE 3	FORMER COUNTY GARAGE	RI/FS
SITE 4	THIRD FIRE DEPARTMENT TRAINING AREA	RI/RD
SITE 5	SECOND FIRE DEPARTMENT TRAINING AREA	RI/FS
SITE 6	FORMER SOILD WASTE LANDFILL	RD
SITE 7	FIRST FIRE DEPARTMENT TRAINING AREA	RI/FS
SITE 8	FORMER RADAR TOWER	RI/FS
** WURTSMITH (AIR FORCE)		
SITE 1	MPA OG TANKS	RA
SITE 2	AF BEACH COMPLEX	RA
SITE 4	SP-2	RA
SITE 5	SP-5	RA
SITE 6	SP-7	RA

MINNESOTA

Site Name	Description	Project
** TWIN CITIES AAP (ARMY)		
SITE 1	SLUDGE AND SUMP ANALYSIS	RA
SITE 3	129-3	RI/RA
SITE 4	129-5	RI/RA
SITE 5	129-15	RI/RA
SITE 6	A	RI/RA
SITE 7	B	RI/RA
SITE 8	C	RI/RA

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

MINNESOTA

Site Name	Description	Project
SITE 9	D	RI/RA
SITE 10	E	RI/RA
SITE 11	F	RI/RA
SITE 12	G	RI/RA
SITE 13	H	RI/RA
SITE 14	I	RI/RA
SITE 15	J	RI/RA
SITE 16	K	RI/RA
** NIROP MINNEAPOLIS (NAVY)		
SITE 1	WASTE DISPOSAL TRENCHES	RI/FS
SITE 2	WASTE DISPOSAL PITS	RI/FS
SITE 3	AREA BENEATH THE NIROP BLDG	RI/FS
** DULUTH IAP (AIR FORCE)		
SITE 1	RD-1 LOW LEVEL RADIOACTIVE WASTE	RI
SITE 2	#5	RI
SITE 3	#6	RI
SITE 4	#7	RI
SITE 5	#9	RI
SITE 6	S-2 DPDO STORAGE AREA C	RI
** MINN ST.PAUL IAP (AIR FORCE)		
SITE 5	PAST FUEL SPILL AREA	RI/RA

MISSOURI

Site Name	Description	Project
** LAKE CITY AAP (ARMY)		
SITE 1	LANDFILL AND OTHERS	RI/FS
SITE 2	LAGOONS	RA
SITE 3	CONTAMINATED SOIL	RA
** WELDON SPRING TRAINING AREA (ARMY)		
SITE 1	DOE/DA MOU	RI/FS
** RICHARDS GEBEUR (AIR FORCE)		
SITE 1	SOUTH LANDFILL	RI
SITE 2	NORTHEAST LANDFILL	RI
SITE 6	NORTH BURN AREA	RI
SITE 8	HERBICIDE BURIAL AREA	RI
SITE 9	OIL SATURATED AREA	RI
SITE 10	HAZ WASTE DRUM STORAGE	RI
SITE 12	POL STORAGE AREA	RI

MISSISSIPPI

Site Name	Description	Project
** CBC GULFPORT (NAVY)		
SITE 1	FIRE FIGHTING TRAINING AREA	RI/FS

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

MISSISSIPPI

Site Name	Description	Project
SITE 2	DISASTER RECOVERY DISPOSAL AREA	RI/FS
SITE 3	WW II LANDFILL	RI/FS
SITE 4	NW LANDFILL	RI/FS
SITE 5	GOLF COURSE LANDFILL	RI/FS
SITE 6	HEAVY EQ. TRAINING AREA LNDFL	RI/FS
SITE 7	RUBBLE DISPOSAL AREA	RI/FS
SITE 8	BUILDING FOUNDATION 271	RI/FS
** KEY FIELD ANG (AIR FORCE)		
SITE 1	KINGSLEY SITES	RI

MONTANA

Site Name	Description	Project
** MALMSTROM (AIR FORCE)		
SITE 1	SITE B FORMER FUEL STORAGE AREA 2	RI
SITE 2	PS-3	RI
SITE 3	OB-2	RI
SITE 4	SW-4	RI
SITE 5	SW-5	RI
SITE 6	SW-1	RI
SITE 7	OS-1	RI
SITE 8	IS-2	RI
SITE 9	OB-3	RI
SITE 10	SW-3	RI
SITE 11	PS-2	RI
SITE 12	PS-1	RI
SITE 13	WW-1	RI
SITE 14	IS-3	RI
SITE 15	FT-1	RI
SITE 16	PS-5	RI
SITE 17	IS-1	RI
SITE 18	PS-4	RI
SITE 19	SW-2	RI
SITE 21	OB-1	RI

NORTH CAROLINA

Site Name	Description	Project
** MCAS CHERRY POINT (NAVY)		
SITE 1	BORROW PIT/DUMP SITE	RI/FS
SITE 2	BORROW PIT/LANDFILL	RI/FS
SITE 5	OLD SANITARY LANDFILL	RI/FS
SITE 6	AREA AND DITCH BEHIND NALF	RI/FS
SITE 7	LANDFILL AT SANDY BRANCH	RI/FS
SITE 8	OPDO STORAGE AREA	RI/FS
SITE 8	BORROW PIT/LANDFILL NORTH OF RNWY 14	RI/FS

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

NORTH CAROLINA

Site Name	Description	Project
SITE 9	BORROW PIT/LANDFILL	RI/FS
SITE 10	STORAGE TANK FOR WASTE POL	RI/FS
SITE 10	FLY ASH PONDS	RI/FS
SITE 11	OLD INCINERATOR	RI/FS
SITE 12	TANK FARM A	RI/FS
SITE 12	FACILITIES MANT. COMPOUND	RI/FS
SITE 13	BORROW PIT/LANDFILL	RI/FS
** MCB CAMP LEJEUNE (NAVY)		
SITE 1	CAMP GEIGER AREA FUEL FARM	RI/FS
SITE 2	FRENCH CREEK LIQUIDS DISPOSAL AREA	RI/FS
SITE 3	FORMER NURSERY/DAY CARE CENTER	RI/FS
SITE 4	STORAGE LOTS 201 AND 203	RI/FS
SITE 5	FIRE FIGHTING TRAINING PIT	RI/FS
SITE 6	TRANSFORMER STORAGE LOT 140	RI/FS
SITE 7	INDUSTRIAL TANK FARM AREA	RI/FS
SITE 8	INDUSTRIAL FLY ASH DUMP	RI/FS
SITE 9	HADNOT POINT BURN DUMP	RI/FS
SITE 10	SNEADS FERRY ROAD FUEL TANK AREA	RI/FS
SITE 11	CAMP GEIGER DUMP	RI/FS
SITE 12	UNDERGROUND AVGAS STORAGE	RI/FS
SITE 13	MCAS NEW RIVER MERCURY DUMP SITE	RI/FS
SITE 14	CRASH CHEW FIRE TRAINING	RI/FS
SITE 15	RIFLE RANGE DUMP	RI/FS
SITE 16	RIFLE RANGE CHEMICAL DUMP	RI/FS
SITE 17	LIQUID DISPOSAL	RI/FS
SITE 18	MESS HALL GREASE PIT AREA	RI/FS
SITE 19	BASKETBALL COURT SITE	RI/FS
SITE 20	CURTIS ROAD SITE	RI/FS
SITE 21	NEW RIVER OFFICER'S HOUSING AREA	RI/FS
SITE 22	RAPID REFUELING SITE	RI/FS
SITE 23	CAMP GEIGER AREA DUMP	RI/FS
** POPE (AIR FORCE)		
SITE 1	FACILITY 452	RA
SITE 2	POL BULK STORAGE	RA
** SEYMOUR JOHNSON AFB (AIR FORCE)		
SITE 1	FUEL HYDRANT SYSTEM	RI
SITE 2	TANK FARM SPILL	RI
SITE 3	LANDFILL 1	RI
SITE 5	#6 FIRE TRAINING AREA	RI
SITE 6	LANDFILL 4	RI
SITE 7	FUEL TANK FUEL SPILL AREA A	FS
SITE 13	DITCH ADJACENT TO RR TRACKS	RI/FS
SITE 14	CSH DITCH	RI

NORTH DAKOTA

Site Name	Description	Project
** HECTOR ANG (AIR FORCE)		
SITE 1	NW ORIENT FUEL OUTLET	RI/FS

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

NORTH DAKOTA

Site Name	Description	Projects
SITE 2	BLDG 211 SPILL	RVFS
SITE 3	WASTE STORAGE FACILITY	RI
SITE 4	BLOG 370 SPILL	RI/FS
SITE 5	FIRE TRAINING AREA	RVFS

NEBRASKA

Site Name	Description	Projects
** CORNHUSKER AAP (ARMY)		
SITE 2	EARTHEN IMPOUNDMENTS (56)	RA

NEW HAMPSHIRE

Site Name	Description	Projects
** DFSP NEWINGTON (DEFENSE LOGISTICS AGENCY)		
SITE 1	WELLS AND BORINGS	RVFS

NEW JERSEY

Site Name	Description	Projects
** FORT DIX (ARMY)		
SITE 3	TCE DUMPSITE	RVFS
SITE 4	NPL LANDFILL	RVFS
SITE 5	DIO MAINTENANCE	RVFS
SITE 6	DIO TRANS DIV MOTOR POOL	RVFS
SITE 7	DPT AVIATION DIV	RVFS
SITE 8	DEM MOTOR POOL	RVFS
SITE 9	AAFES PX SERVICE STATION	RVFS
SITE 10	5TH BOE MOTOR POOL	RVFS
SITE 11	5TH BOE MAINTENANCE	RVFS
SITE 12	2/3 BN MOTOR POOL	RVFS
SITE 13	3/5 BN MOTOR POOL	RVFS
SITE 14	78TH DIV RESERVES ECS 26	RVFS
SITE 15	DPCA AUTO CRAFT SHOP	RVFS
SITE 16	511/759TH M P MOTOR POOL	RVFS
SITE 17	556TH MED AMB MOTOR POOL	RVFS
SITE 18	39TH ENGR MOTOR POOL	RVFS
SITE 19	DIO MAINTENANCE	RVFS
** NAEC LAKENURST (NAVY)		
SITE 1	BLIMP CRASH SITE	RVFS
SITE 2	RSTS TRACK 2	RVFS
SITE 3	DRAINAGE DITCH	RVFS
SITE 4	DEADLOAD MAINTENANCE SHOP	RVFS
SITE 5	ARRESTING ENGINE TRACK 2 BLDG 371	RVFS
SITE 6	HANGAR 2 DISPOSAL AREA	RVFS

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
 INSTALLATION RESTORATION PROGRAM
 (FY 86)**

NEW JERSEY

Site Name		Description	Project#
SITE	7	CATAPULT TEST FAC.	RI/FS
SITE	8	CATAPULT TEST STOR AREA	RI/FS
SITE	9	ARRESTING ENGINE TRACK, BLDG 529	RI/FS
SITE	10	FUEL TRUCK STOR AREA	RI/FS
SITE	11	HANGAR 5 DISPOSAL AREA	RI/FS
SITE	12	FUEL STOR FAC 141	RI/FS
SITE	13	FUEL FARM NO. 125	RI/FS
SITE	14	OLD FIRE FIGHTING SCHOOL	RI/FS
SITE	15	BLDG 562	RI/FS
SITE	19	NATTC FIRE FIGHTING TRAINING AREA	RI/FS
SITE	20	FUEL FARM NO 196	RI/FS
SITE	21	EXCHANGE GAS STATION	RI/FS
SITE	22	SATS CATAPULT (7401 TEST SITE)	RI/FS
SITE	23	TETRAETHYL LEAD DISPOSAL SITE	RI/FS
SITE	24	JET-CAR MAINTENANCE SHOP	RI/FS
SITE	25	JET BLAST DEFLECTOR	RI/FS
SITE	26	DISPOSAL AREA	RI/FS
SITE	27	CATAPULT TEST SITE 7419	RI/FS
SITE	28	TEST DEPT DISPOSAL AREA	RI/FS
SITE	29	CONTRACTOR DISPOSAL AREA	RI/FS
SITE	30	RS:S SCRAP SITE	RI/FS
SITE	31	WEST FIELD HANGAR AREA	RI/FS
SITE	32	ORIGINAL BASE LANDFILL	RI/FS
SITE	33	RSTS TRACK 4 RECOVERY END	RI/FS
SITE	34	SANITARY LANDFILL	RI/FS
SITE	35	RSTS LAUNCHING END	RI/FS
SITE	36	REFUELER REPAIR SHIP DRYWELL	RI/FS
SITE	37	PARACHUTE JUMP CIRCLE	RI/FS
SITE	38	HELICOPTER REFUELING AREA	RI/FS
SITE	39	HANGAR 1 DISPOSAL AREA	RI/FS
SITE	40	FUEL DISPOSAL AREA	RI/FS
SITE	41	OIL SKIMMING AND SLUDGE DISPOSAL AREA	RI/FS
SITE	42	POL DISPOSAL AT HANGAR 3	RI/FS
SITE	43	SOIL STABILIZATION FIELD TEST	RI/FS
SITE	44	BASE LANDFILL	RI/FS
SITE	45	PCB STOR AND TESTING AREA	RI/FS
SITE	46	BOOMARK SITE	RI/FS
** NAPC TRENTON (NAVY)			
		BAROMETRIC WELL	RI/FS
** NWS EARLE COLTS NECK (NAVY)			
SITE	1	ORDNANCE DEMILITARIZATION SITE	RI/FS
SITE	2	LANDFILL SW OF "F"	RI/FS
SITE	3	LANDFILL WEST OF "D"	RI/FS
SITE	4	LANDFILL WEST OF ARMY BRIGADE	RI/FS
SITE	5	UNNAMED TRIBUTORS	RI/FS
** MCGUIRE (AIR FORCE)			
SITE	1	FIRE PROTECTION TRAINING AREA	RI

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

NEW JERSEY

Site Name		Description	Project
SITE	2	FIRE PROTECTION TRAINING AREA 2	RI
SITE	3	FIRE PROTECTION TRAINING AREA 3	RI
SITE	4	LANDFILL 2	RI
SITE	5	LANDFILL 3	RI
SITE	6	LANDFILL 4 ZONE 1	RI
SITE	7	LANDFILL 5 ZONE 1	RI
SITE	8	LANDFILL 6 ZONE 1	RI
SITE	9	DPOO STORAGE FACILITY	RI
SITE	10	MISSILE SITE TRANSFORMER LOCATION	RI
SITE	11	PESTICIDE WASH AREA	RI
SITE	13	MISSILE SITE MOGAS STORAGE TANKS	RI
SITE	14	NDI SHOP DRAIN FIELD	RI
SITE	15	MISSILE SITE ACCIDENT AREA	RI
SITE	16	PCB SPILL SITE	RI
SITE	17	BULK FUEL STORAGE TANK	RI
SITE	18	BULK FUEL STORAGE TANK	RI
SITE	19	BURIED OIL DRUMS	RI
SITE	20	MISSILE SITE JP-X DISCHARGE PIT	RI
SITE	21	WWTP SLUDGE DISPOSAL AREAS ZONE 1	RI
SITE	22	MISSILE SITE NEUTRALIZED ACID PIT	RI
SITE	23	CLEWAN UP HAZ WASTE VARIOUS SITES	RA

NEW MEXICO

Site Name		Description	Project
** WHITE SANDS MISSILE RANGE (ARMY)			
SITE	1	SEVERAL SITES	RVFS
** CANNON AFB (AIR FORCE)			
SITE	1	ENTOMOLOGY RINSE AREA	RI
** HOLLoman AFB (AIR FORCE)			
SITE	1	OIL SPILLS AT AIRCRAFT WASH RACKS	LTM
SITE	5	SERVICE STATION FUEL LEAK	RI
** KIRTLAND AFB (AIR FORCE)			
SITE	1		RO

NEW YORK

Site Name		Description	Project
** AFP NO. 38 (AIR FORCE)			
SITE	1	SALVAGE YARD	RVFS
SITE	2	WASTE SITE 1	RI
SITE	3	WASTE SITE 2	RI
SITE	4	WASTE SITE 3	RI
SITE	5	WASTE SITE 4	RVFS

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

NEW YORK

Site Name	Description	Project
SITE 6	HAZARDOUS WASTE POND	RI
SITE 7	DRAINAGE DITCH	RI
SITE 8	DAM	RI
** AFP NO.59, JOHNSON CITY (AIR FORCE)		
SITE 1	SOUTHSIDE (Z)	RI
SITE 2	ZONE 1 DRUM SORAGE AREA	RI
SITE 3	CHOCANUT CREEK	RI
** GRIFFISS AFB (AIR FORCE)		
SITE 1	CONTAMINATED SOIL FDA	FS
SITE 2	BLDG 210	RI
SITE 3	THREE MILE CREEK	FS
SITE 4	BULK FUEL STORAGE AREA	RA
SITE 6	BLDG 26 UST	RI
SITE 7	CONTAMINATED AREA NEAR T9	RI
SITE 8	UT AT NEWPORT AREA	RI
** HANCOCK FIELD (AIR FORCE)		
SITE 1	D-1 DISPOSAL SITE	RI
SITE 2	D-3 DISPOSAL SITE	RI
SITE 3	D-5 DISPOSAL SITE	RI
SITE 4	FT-1 FIRE TRAINING AREA	RI
SITE 5	S-1 TRANSFORMER STORAGE AREA	RI
SITE 6	S-3 ENTOMOLGY UNDERGROUND STORAGE	RI
SITE 7	SP-1 OLD SPILL SITE	RI
SITE 8	UNOFFICAL DUMP SITE	RI
SITE 9	DRAINAGE/POND SWAMP	RI
** PLATTSBURGH AFB (AIR FORCE)		
SITE 1	TIRE SHOP WASTE ACCUMULATION AREA	RA
** STEWART ANG (AIR FORCE)		
SITE 1	LANDFILL	RI/FS
SITE 2	PESTICIDE BURIAL SITE	RI/RA
** SUFFOLK ANG (AIR FORCE)		
SITE 1	FIRE TRAINING PIT	RI/FS
SITE 2	AREA AJACENT TO PARKING LOT	RI/FS
SITE 3	FORMER HW STORAGE BLDG 358	RI/FS
SITE 4	CURRENT HW STORAGE BLDG 282	RI/FS
SITE 5	AIRCRAFT REFUELING APRON	RI/FS
SITE 6	OPEN DITCH AREA	RI/FS

OHIO

Site Name	Description	Project
** AFP NO.36, EVANDALE (AIR FORCE)		
SITE 1	UNDERGROUND FUEL LEAK NW OF BLDG B	RA

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

OHIO

Site Name		Description	Project
SITE	2	FUEL SPILL	RA
** NEWARK AFS (AIR FORCE)			
SITE	1	SP-3	RI
SITE	2	SP-4	RI
SITE	3	SP-1	RI
SITE	4	AT-1	RI
** RICKENBACKER ANG (AIR FORCE)			
SITE	1	HAZ WASTE STORAGE TANK AREA	RI/FS
SITE	2	JP-4 BULK STORAGE FARM	RI/FS
SITE	3	JP-4 PUMPING STATION 4	RI/FS
SITE	4	AREA NEAR JP-4 PUMPING STATION 5	RI/FS
SITE	5	SPILL AREA BETWEEN TAXIWAYS B & C	RI/FS
SITE	6	UG UNLEADED GASOLINE STORAGE TANK	RI/FS
SITE	7	SALVAGE YARD, FAC. NO. 906	RI/FS
SITE	8	JP-4 FUEL LINE RUPTURE	RI/FS
SITE	9	OLD DRUM STORAGE AREA NEAR BLDG 873	RI/FS
SITE	10	KC-35 CRASH	RI/FS
SITE	11	FUEL DUMP PIT	RI/FS
SITE	12	OLD ENTOMOLOGY LAB	RI/FS
SITE	13	DRAINAGE DITCH NR HEAT PLANT NORTH COAL	RI/FS
SITE	14	DRAIN DITCH NR HEAT PLNT SOUTH COAL PILE	RI/FS
SITE	15	DRUM BHND H2O TREAT PLANT SLUDGE BED	RI/FS
SITE	16	OUTDOOR LUBE DRUM STORAGE NR HEAT PLANT	RI/FS
SITE	17	FIRE TRAINING AREA	RI/FS
SITE	18	SANITARY SEWAGE TREATMENT SLUDGE BED	RI/FS
SITE	19	STORM DRAIN DITCH SYSTEM	RI/FS
SITE	20	ELECTRICAL TRANSFORMER STORAGE YARD	RI/FS
SITE	21	DRAINAGE DITCH NEAR LANDFILL	RI/FS
** WRIGHT PATTERSON AFB (AIR FORCE)			
SITE	30	DEACTIVATED NUCLEAR REACTOR	RI/FS
** WRIGHT-PATTERSON AFB (AIR FORCE)			
SITE	1	COAL STORAGE PILE	RI
SITE	2	AREAS A, B, AND C	RI
SITE	3	CENTRAL HEAT PLANT 1	RI
SITE	4	CENTRAL HEATING PLANT 2	RI
SITE	5	CENTRAL HEATING PLANT 3	RI
SITE	6	CENTRAL HEATING PLANT 4	RI
SITE	7	CENTRAL HEATING PLANT 5	RI
SITE	8	LANDFILL 1	RI
SITE	9	LANDFILL 2	RI
SITE	10	LANDFILL 3	RI
SITE	11	BURIAL SITE 1	RI/FS
SITE	12	BURIAL SITE 2	RI/FS
SITE	13	FT AREA 2	RI/FS
SITE	14	LF 5	RI/FS
SITE	15	LANDFILL 8	RI

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
 INSTALLATION RESTORATION PROGRAM
 (FY 86)**

OHIO

Site Name	Description	Project
SITE 16	LANDFILL 9	RI/FS
SITE 17	LANDFILL 10	RI
SITE 18	LANDFILL 11	RI
SITE 19	LANDFILL 12	RI/RA
SITE 20	FDTA 1	RI
SITE 21	UNDERGROUND TANKS AREA B	RI/FS
SITE 22	FDTA 3	RI
SITE 23	UNDERGROUND TANKS AREA C	RI/FS
SITE 24	RADIOACTIVE WASTE BURIAL SITE	RI/FS
SITE 25	SPILL 2	RI
SITE 26	SPILL 3	RI
SITE 30	LANDFILL 13	RI

**** YOUNGSTOWN (AIR FORCE)**

SITE 1	PAR COURSE DRUM STORAGE	RI
SITE 2	WASTE OIL SOLVENT CORRAL	RI
SITE 3	POL LEAD SLUDGE DISPOSAL AREA	RI
SITE 4	TRANSFORMER STORAGE AREA	RI

OKLAHOMA

Site Name	Description	Project
** ALTUS AFB (AIR FORCE)		
SITE 1	INDUSTRIAL WASTE LAGOON(AGE WASHRACK)	RI
SITE 2	FPA 1	RI
SITE 3	AIRCRAFT WASHRACK POND	RI
SITE 5	FTA 2	RI
SITE 6	FTA 3	RI
SITE 7	FTA4	RI
SITE 8	LF 1	RI
SITE 9	LF 2	RI
SITE 10	LF 3	RI

**** TINKER (AIR FORCE)**

SITE 1	LANDFILL 2	RI
SITE 3	BLDG 3001	RI
SITE 4	3108 AREA RAP	RI
SITE 5	CRUTCHO KULHMAN AND ELM CREEK	RI
SITE 6	LANDFILL 4	RI
SITE 7	LANDFILL 6	RI
SITE 8	EAST SOLDIER'S CREEK	RI/RA
SITE 9	FDTA 1	RI
SITE 10	IWTP TANKS	RI
SITE 11	POL TANK FARM/AUST	RI
SITE 12	WELLS 18 AND 19	RI
SITE 13	FDTA 2	RI
SITE 14	LANDFILL 1	RI
SITE 15	LANDFILL 5	RI

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

OKLAHOMA

Site Name	Description	Project
SITE 16	FACILITY 1123	RI
SITE 17	RWDS 1022E	RI
SITE 18	RWDS 201S	RI
SITE 19	RWDS 62598	RI
SITE 20	ALL SITES UNSPECIFIED NUMBER	RI
SITE 21	LANDFILL NO. 3	RI
SITE 22	INDUSTIAL WASTE PIT 1	RI
SITE 23	INDUSTRIAL WASTE PIT 2	RI
** VANCE AFB (AIR FORCE)		
SITE 1	CHEMICAL DISPOSAL PIT	FS
SITE 2	UST FUEL TEST CELL	FS
SITE 3	TANK FARM LANDFILL	FS
SITE 7	SITE 7	FS
SITE 8	SITE 8	FS
SITE 9	SITE 9	FS
SITE 10	AUX FIRE TRAINING AREA	FS
SITE 11	FIRE FIGHTER TRAINING AREA	FS
SITE 12	EAST BOUNDRY LANDFILL	FS
SITE 13	SOUTHEAST LANDFILL	FS
SITE 14	AQUA/AVGAS SYSTEM	FS
SITE 15	STORAGE TANK AREA 110	FS
SITE 16	HAZARDOUS WASTE ACCUMULATION PIT	FS
SITE 17	TANK SLUDGE DISPOSAL AREA	FS

OREGON

Site Name	Description	Project
** PORTLAND ANG (AIR FORCE)		
SITE 1	CENTRAL TEMPORARY STOR.AREA	RI/FS
SITE 2	CE HAZ MATRL STORAGE AREA	RI/FS
SITE 3	HUSH HOUSE	RI/FS
SITE 4	MAIN DRAINAGE DITCH	RI/FS
SITE 5	AGE MAINTENANCE SHOP	RI/FS
SITE 6	BURN PIT AREA	RI/FS
SITE 7	SANITARY LANDFILL	RI/FS
SITE 8	NORTH BEND ANG	RI/FS

PENNSYLVANIA

Site Name	Description	Project
** LETTERKENNY ARMY DEPOT (ARMY)		
SITE 1	DPDO AREA	RI/FS
SITE 2	DISPOSAL AREA	RI/FS
SITE 3	LAGOON	RI/FS
SITE 4	SOUTHEAST INDUTRIAL AREA	RI/FS
** NEW CUMBERLAND AD (ARMY)		
SITE 1	EASTERN DISTRIBUTION CENTER	RA

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
 INSTALLATION RESTORATION PROGRAM
 (FY 86)**

PENNSYLVANIA

Site Name	Description	Project
SITE 3	SOLVENT TANK T-950	RA
** NSY PHILADELPHIA (NAVY)		
SITE 1	TRANSFORMER STOR. AREA B 825	RI/FS
SITE 2	BLASTING GRIT AND DRUM DISP AREA	RI/FS
SITE 3	CYLINDER DISP. AREA	RI/FS
SITE 4	FUEL FARM	RI/FS
SITE 5	SUBSTATION 82 TRANSF. OIL SPILL	RI/FS
SITE 7	B 546-PCB TRANSFORMER SPILL	RI/FS
** GREATER PITTSBURGH IAP (AIR FORCE)		
SITE 5	A-7 WASTE OIL TANKS	RI/RA
SITE 11	MOTOR POOL AREA	RI/RA
** WILLOW GROVE ARF (AIR FORCE)		
SITE 1	HEATING PLANT	RI
SITE 2	OPEN WASTE STORAGE YARD	FS
SITE 3	PONDING AREA	FS
SITE 4	POL AREA	FS
SITE 5	OLD WELL HOUSE	RI
SITE 6	WASHRACK AREA	RI
SITE 7	WASTE OIL STORAGE AREA	RI

PUERTO RICO

Site Name	Description	Project
** NS ROOSEVELT ROADS (NAVY)		
SITE 1	IRRNA/MAF-4 DISPOSAL SITE	RI/FS
SITE 2	OLD POWER PLANK, BLDG 38	RI/FS
SITE 5	QUEBRADA DISP SITE	RI/FS
SITE 6	MANGROVE DISP. SITE	RI/FS
SITE 7	ARMY CREMATOR DISP AREA	RI/FS
SITE 8	LANGLEY DR DISP. AREA	RI/FS
SITE 9	DRONE WASHDOWN	RI/FS
SITE 10	STATION LANDFILL	RI/FS
SITE 11	PCB DISPOSAL DRY DOCK AREA	RI/FS
SITE 12	BLDG 25	RI/FS
SITE 13	BLDG 145	RI/FS
SITE 14	TWO WAY RD FUEL FARM	RI/FS
SITE 15	TANKS 210 TO 217	RI/FS
SITE 16	EMSEN HONDA SHORELINE MAG.	RI/FS
SITE 18	SUBSTATION 2	RI/FS

SOUTH CAROLINA

Site Name	Description	Project
** NWS CHARLESTON (NAVY)		
SITE 1	OLD SOUTH SIDE PESTICIDE RINSE AREA	RI/FS

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

SOUTH CAROLINA

Site Name	Description	Project
SITE 3	SOUTH SIDE LNDFL	RI/FS
SITE 4	NORTH SIDE LNDFL	RI/FS
SITE 5	NORTH SIDE BURN AREA	RI/FS
SITE 6	S. ANNEX WASTE DISPOSAL AREA	RI/FS
SITE 7	S. ANNEX MUNITIONS DISPOSAL	RI/FS
SITE 8	PCP DIP TANK AT BLDG 88	RI/FS
** CHARLESTON AFB (AIR FORCE)		
SITE 2	CONTAMINATED LAGOON	RA
SITE 20	BURIED AREA	RA
** MCENTIRE ANG (AIR FORCE)		
SITE 2	FPTA 5	RI
SITE 3	OIL DUMP SITE	RI
SITE 4	C141 SPILL AREA	RI
SITE 5	4Y WASTE STORAGE FAC. AREA STORAGE	RI
** SHAW AFB (AIR FORCE)		
SITE 1	JP-4 SPILL	RI
** DFSP CHARLESTON (DEFENSE LOGISTICS AGENCY)		
SITE 1	OFF-SITE WELLS, BORINGS, SOIL ANALYSIS	RI/FS

SOUTH DAKOTA

Site Name	Description	Project
** JOE FOSS (AIR FORCE)		
SITE 1	UNDERGROUND STORAGE TANKS	RI/FS
SITE 2	FIRE TRAINING AREA TANKS	RI/FS

TENNESSEE

Site Name	Description	Project
** MILAN AAP (ARMY)		
SITE 1	HIGH PRESSURE WASHOUT SYSTEM	RI/FS
SITE 2	OPEN BURNING/OPEN DETONATION AREA	RI/FS
** VOLUNTEER AAP (ARMY)		
SITE 1	MONITORING	RI/FS
** ARNOLD AFB (AIR FORCE)		
SITE 1	LANDFILL 2 LEACHATE PIT 2	RI/RO
SITE 2	J-4 RETENTION RESVR AREA SURFACE DRAINAGE	RI
SITE 3	LANDFILL 4	RI
SITE 4	SURFACE DRAINAGE BRADLEY	RI
SITE 5	SURFACE DRAINAGE ROLLINS	RI
SITE 6	CAMP FORREST WATER TREATMENT PLANT	RI

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
 INSTALLATION RESTORATION PROGRAM
 (FY 86)**

TENNESSEE

Site Name	Description	Project
SITE 7	AEDC TESTING AREA	RI
SITE 8	LEACHING PIT NUMBER 1	RI
SITE 9	SURFACE DRAINAGE BRUMALOW	RI
SITE 10	PROTECTION AREA 2/BURN AREA 2/LF 1	RI/RA
SITE 11	CHEMICAL TREATMENT POND	RI
SITE 12	RETENTION LEACH/BURN AREA	RI
SITE 13	FPTA 1	RI
SITE 14	SURFACE DRAINAGE CRUMPTON	RI
SITE 15	PEF BURN/BURIAL AREA	RI
SITE 16	BERYLLIUM LEACHING PIT	RI
SITE 17	BURN AREA 2	RI

**** DDMT MEMPHIS (DEFENSE LOGISTICS AGENCY)**

SITE 1	CLEAN-UP HM RECOUPMENT AREA, REMOVE DIOX	RA
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TRUST TERRITORIES

Site Name	Description	Project
** WAKE ISLAND (AIR FORCE)		
SITE 1	1500 LIQUID FUEL STORAGE AREA	RI
SITE 2	SITE 7	RI
SITE 3	1800 LIQUID FUEL STORAGE	RI
SITE 4	1700 LIQUID FUEL STORAGE	RI
SITE 5	SITE 13	RI
SITE 6	SITE 14	RI
SITE 7	SITE 10	RI
SITE 8	SITE 9	RI
SITE 9	SITE 4	RI
SITE 10	SITE 5	RI
SITE 11	SITE 8	RI
SITE 12	SITE 11	RI
SITE 13	IND, LNOFL, FTA	RI
SITE 14	SITE 12	RI
SITE 15	SITE 6	RI
SITE 16	SITE 15	RI

TEXAS

Site Name	Description	Project
** FORT BLISS (ARMY)		
SITE 1	FIRE FIGHTING TRAINING AREA	RI/FS
** LONE STAR AAP (ARMY)		
SITE 5	MIGRATION MANAGEMENT	RI/FS
SITE 6	OLD DEMOLITION GROUNDS	RI/FS
SITE 7	OLD WELLS AND CISTERNS	RI/FS
** LONGHORN AAP (ARMY)		
SITE 3	UNLINED EVAPORATION POND	RA

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

TEXAS

Site Name	Description	Project
** RED RIVER ARMY DEPOT (ARMY)		
SITE 1	OTC AREA	RA
SITE 2	CHROMATE SLUDGE BED	RA
** NAS CHASE FIELD (NAVY)		
SITE 1	NW RUBBLE DISP. AREA	RI/FS
SITE 2	SE DISP. AREA	RI/FS
SITE 3	FIRE FIGHTING TRAINING AREA	RI/FS
SITE 4	OLD FIRE FIGHTING TRAINING AREA	RI/FS
** NAS CORPUS CHRISTI (NAVY)		
SITE 1	CCAD LIQUID WASTE DISP AREA	RI/FS
SITE 2	DPDO LNDFL	RI/FS
SITE 3	NORHT GATE DISPOSAL AREA	RI/FS
SITE 4	FUEL FARM 216	RI/FS
** NAS DALLAS (NAVY)		
SITE 1	FORMER FIRE FIGHTING TRAINING AREA	RI/FS
SITE 2	RUBBLE LANDFILL	RI/FS
SITE 3	PCB LEAK	RI/FS
SITE 4	PAINT STRIPPING AREA	RI/FS
SITE 5	TANG AREA DRAINAGE DITCH	RI/FS
** NAS KINGSVILLE (NAVY)		
SITE 1	SEWEAGE TREATMENT PLANT LNDFL	RI/FS
SITE 3	TRANS. MTR POOL	RI/FS
SITE 5	FIRE FIGHTING TRAINING AREA	RI/FS
SITE 6	LNDFL	RI/FS
SITE 7	WASTE POL/SOLVENT DISP.	RI/FS
SITE 8	AVGAS FUEL FARM-SOUTH FIELD	RI/FS
SITE 10	AVGAS FUEL FARM-NORTH FIELD	RI/FS
** HWIRP DALLAS (NAVY)		
SITE 1	E. DRAINAGE LAGOON	RI/FS
SITE 2	W. OIL BURNER & DRUM AREA	RI/FS
SITE 4	IND SLUDGE DRUM STOR.	RI/FS
SITE 5	WASTE POL SPILL	RI/FS
SITE 6	FORMER ACID NEUT PIT	RI/FS
SITE 7	IWC PIPELINE LEAK	RI/FS
SITE 8	FORMER REFUSE BURN PIT	RI/FS
SITE 9	FIREBRICK BURIAL SITE	RI/FS
SITE 10	W. DRAINAGE LAGOON	RI/FS
** AFP NO.4, FT. WORTH (AIR FORCE)		
SITE 1	LANDFILL 1	RA
SITE 2	LANDFILL 2	RA
SITE 3	LANDFILL 3	RA
SITE 4	LANDFILL 4	RA
SITE 5	FOTA 2	RA

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
 INSTALLATION RESTORATION PROGRAM
 (FY 86)**

TEXAS

Site Name		Description	Project
SITE	6	FDTA 3	RA
SITE	7	FDTA 4	RA
SITE	8	FDTA 5	RA
SITE	9	FDTA 6	RA
SITE	10	CHROME PIT 1	RA
SITE	11	CHROME PIT 2	RA
SITE	12	CHROME PIT 3	RA
SITE	13	DYE PITS	RA
SITE	14	FUEL SATURATED AREA 1	RA
SITE	15	FUEL SATURATED AREA 2	RA
SITE	16	FUEL SATURATED AREA 3	RA
SITE	17	FORMER FUEL STORAGE	RA
SITE	18	SOLVENT LINES	RA
SITE	19	NARF AREA	RA
SITE	20	WASTEWATER COLLECTION BASINS	RA
** AFP NO.4, FT.WORTH (AIR FORCE)			
SITE	21	WEST COMPASS ROSE	RA
SITE	22	"WINDOW" EAST CORNER OF BASE	RA
** BERGSTROM AFB (AIR FORCE)			
SITE	1	LANDFILL 3	RI
SITE	2	LANDFILL 4	RI
SITE	3	FTA 23	RI/FS
SITE	4	LANDFILL 5	RI
SITE	5	LANDFILL 6	RI
SITE	6	LANDFILL 7	RI
SITE	7	JP-4 SPILL/OPEN PIPELINE	RI
SITE	8	ROAD OILING	RI
SITE	9	MOGAS SPILL AT MOTOR POOL	RI
SITE	10	SOUTH FORK DRAINAGE DITCH	RI
** BROOKS (AIR FORCE)			
SITE	1	PCB TRANSFORMER OIL CONTAM BLDG 100	RA
** DYESS (AIR FORCE)			
SITE	1	UNDERGROUND RAILROAD TANK CAR	RA
** ELLINGTON ANG (AIR FORCE)			
SITE	1	POL TANK FARM	RI/FS
SITE	2	FORMER BASE LANDFILL	RI/FS
** GOODFELLOW AFB (AIR FORCE)			
SITE	1	DRUM STORAGE	RI
SITE	2	SOUTH LANDFILL	RI
SITE	3	SOUTHEAST LANDFILL	RI
SITE	4	FUEL STORAGE AREA	RI
** KELLY AFB (AIR FORCE)			
SITE	1	SA 4	RI

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

TEXAS

Site Name		Description	Project
SITE	2	GREEN WORM AREA	RI
SITE	3	600 AREA	RI
SITE	4	SA-2	RI/RA
SITE	5	IS-1	RI
SITE	6	S-6	RI
SITE	7	SA-3	RI
SITE	8	S-2	RI
SITE	9	S-7	RI
SITE	10	SD-2	RI
SITE	11	RD-1	RI
SITE	12	S-3	RI
SITE	13	D-6	RI
SITE	14	RD-2	RI
SITE	15	D-1	RI
SITE	16	FC-1	RI
SITE	17	FC-2	RI
SITE	18	D-4	RI
SITE	19	D-2	RI
SITE	20	S-1	RI
SITE	21	E-1	RI
SITE	22	S-4	RI
SITE	23	E-3	RI
SITE	24	SITE 4 COAL FLYASH DISPOSAL	RI
SITE	25	SITE 5 COAL FLYASH DISPOSAL	RI
SITE	25	SITE 7-ABANDONED FTA	RI
SITE	26	SITE 10 POL STORAGE AREA	RI
SITE	27	SECURITY FENCE AREA	RI
SITE	28	SITE D-3 LANDFILL	RI
SITE	29	SITE D-5 LANDFILL	RI
SITE	30	SITE D-7 LANDFILL	RI
SITE	31	SITE D-7 LANDFILL	RI
SITE	31	SITE D-10 TAR PIT	RI/FS
SITE	32	SITE F-2 OIL EVAPORATION PIT	RI
SITE	33	LIQUID WASTE INCINERATOR SITE	RI
SITE	34	SITE SA-2 SLUDGE SPREADING AREA	RI
SITE	35	LS-1 WASTE SITE	RI
SITE	36	E-3 OIL EVAPORATION PIT	FS

**** LACKLAND (AIR FORCE)**

SITE	1	ABANDON UST 300 AREA	RI
SITE	2	ABANDON UST 400 AREA	RI
SITE	3	ABANDONED UST 100 AREA	RI
SITE	4	ABANDONED UST 700 AREA	RI
SITE	5	LOW LEVEL RADIOACTIVE DISP 423	RI
SITE	6	LOW LEVEL RADIOACTIVE DISP 401	RI
SITE	7	LOW LEVEL RADIOACTIVE DISPOSAL 429	RI
SITE	8	LOW LEVEL RADIOACTIVE DISPOSAL 430	RI
SITE	9	LOW LEVEL RADIOACTIVE DISP 444	RI
SITE	10	LOW LEVEL RADIOACTIVE DISP 508	RI
SITE	11	FPTA 2	RI

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

TEXAS

Site Name		Description	Project
SITE	12	FPTA NO.2	RI
SITE	13	LANDFILL 4	RI
SITE	14	EXPOSIVE ORDNANCE BURN PIT	RI
SITE	15	WASTE BURNING GROUNDS	RI
SITE	16	LEACHING AREA 465	RI
SITE	17	LEACHING AREA 7595	RI
** LAUGHLIN (AIR FORCE)			
SITE	1	SUPPLY STORAGE AREA	RI
SITE	2	SOUTH BOUNDRY DIKE	RI
SITE	3	DEFUEL PIT	RI
SITE	4	DPOO	RI
SITE	5	FIRE FIGHTING TRAINING AREA	RI
SITE	6	SLUDGE DISPOSAL AREA	RI
SITE	7	BASE LANDFILL	RI
SITE	8	NEW INDUSTRIAL WASTE POND	RI
SITE	9	OLD INDUSTRIAL WASTE POND	RI
** RANDOLPH (AIR FORCE)			
SITE	1	TF 73	RI
SITE	2	TF 13	RI
SITE	3	TF 4	RI
SITE	4	TF 15038	RI
SITE	5	TF 875	RI
SITE	6	TF 675	RI
SITE	7	TF 35	RI
SITE	8	FPTA 2	RI
SITE	9	LANDFILL 2	RI
SITE	10	TANK T 16	RI
SITE	11	T 24,T 25	RI
SITE	12	POL TANK SLUDGE DISPOSAL AREA	RI
** REESE AFB (AIR FORCE)			
SITE	1	D 1	RI
SITE	2	SI 1	RI
SITE	3	D 4	RI
SITE	4	D 5	RI
SITE	5	D 11	RI
SITE	6	SI 2	RI
SITE	7	SI 4	RI
SITE	8	FT 1	RI
SITE	9	SP 1	RI
SITE	10	SEWAGE DIGESTER SLUDGE AREA	RI
SITE	11	POL STORAGE 4EA	RI
SITE	12	SEWAGE LAKE	RI
SITE	14	SEWAGE FT 3	RI
SITE	15	HURLWOOD ACQUISITION AND LANDFILL	RI

UTAH

Site Name		Description	Project
** DUGWAY PROVING GROUND (ARMY)			
SITE	1	OPEN PITS	46FS

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

UTAH

Site Name	Description	Project
SITE 2	DUMP SITE	RVFS
** TOOELE AD (ARMY)		
SITE 1	WINDOWS	RVFS
SITE 2	INDUSTRIAL WASTE POND	RVFS
SITE 3	CAMDS	RVFS
SITE 4	GRAVEL PIT	RVFS
SITE 5	PITS (UNKNOWN NUMBER)	RVFS
SITE 6	MUSTARD HOLDING AREA	RVFS
SITE 7	EXPLOSION CRATERS	RVFS
SITE 11	DRAINAGE PONDS	RVFS
SITE 12	SPOIL AREA	RVFS
** HILL AFB (AIR FORCE)		
SITE 1	SODIUM HYDROXIDE SPILL	RI
SITE 2	BERMAN POND	RV/RA
SITE 3	IWTP DRYING BED	RI
SITE 4	MTN. DRYING BEGS	RI
SITE 5	LANDFILL 1	RI
SITE 6	LANDFILL 2	RI
SITE 7	LANDFILL 3	RV/RA
SITE 8	LANDFILL 4	RV/RA
SITE 9	LANDFILL 5	RV/RA
SITE 10	HERBICIDE ORANGE TEST PLOT	RI
SITE 11	DISPOSAL PITS	RI
SITE 12	CHEMICAL DISPOSAL PIT 1	RV/RA
SITE 13	CHEMICAL DISPOSAL PIT 2	RV/RA
SITE 14	CHEMICAL DISPOSAL PIT 3	RV/RA
SITE 15	PERIMETER ROAD	RI
SITE 16	SWAMP LEACH FIELD	RI
SITE 17	POND 3	RI
SITE 18	B22 UNDER GROUND TANKS	RV/RA
SITE 19	US ARMY TOOELE RAIL SHOP	RI
SITE 30	SITE 3 LANDFILL	RI
SITE 31	SITE 4	RI
SITE 32	SITE 5	RI
SITE 33	SITE 6	RI
SITE 34	PCB BURN PIT	RI
SITE 35	SPOIL PIT	RI
SITE 36	FIRE TRAINING AREA 1	RI
SITE 36	GOLF COURSE	RI
SITE 37	BAMBERGER POND	RI
SITE 389	REFUELING AREA JP 4 FUEL SPILL	RI
SITE 39	CHEMICAL DISPOSAL PITS NOS 1 AND 2	RA
SITE 40	SITE 2	RA
** OGDEN (DEFENSE LOGISTICS AGENCY)		
SITE 1	FORMER LANDFILLS (CONTRACT ADMIN)	RVFS

VIRGINIA

Site Name	Description	Project
** FORT EUSTIS (ARMY)		
SITE 1	HELICOPTER MAINTENANCE AREA	RVFS

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

VIRGINIA

Site Name	Description	Project
SITE 3	SEVERAL OLD LANDFILLS	RVFS
** RADFORD AAP (ARMY)		
SITE 1	LAGOON	RA
SITE 2	OTHER SITES	RVFS
** WOODBRIDGE RESEARCH FACILITY (ARMY)		
SITE 2	PCB BURIAL SITE	RVFS
** MCDEC QUANTICO (NAVY)		
SITE 1	PESTICIDE BURIAL AREA (SITE 1)	RVFS
SITE 2	OLD LANDFILL (SITE 4)	RVFS
SITE 3	OLD BATCH PLANT (SITE 5)	RVFS
SITE 4	RECENTLY CLOSED LANDFILL (SITE 7)	RVFS
SITE 5	ARSENIC DISPOSAL AREA (SITE 17)	RVFS
** PWC NORFOLK (NAVY)		
SITE 4	P-71 TRANSFORMER STORAGE AREA	RVFS
** BYRD ANG (AIR FORCE)		
SITE 1	S 1	RVFS
SITE 2	S 2	RVFS
SITE 3	S 3	RVFS
SITE 4	S 4	RVFS
SITE 5	S 5	RVFS
** LANGLEY AFB (AIR FORCE)		
SITE 2	FUEL SATURATED AREA	RVRA
** DGSC RICHMOND (DEFENSE LOGISTICS AGENCY)		
SITE 1	SOIL BORINGS, SAMPLING AND FINAL REPORT	RVFS

WASHINGTON

Site Name	Description	Project
** FORT LEWIS (ARMY)		
SITE 2	FIRE PIT/EOD RANGE	RVFS
SITE 3	LANDFILL 5	RVFS
SITE 4	LOG CENTER	RVFS
** NAS WHIDBEY ISLAND (NAVY)		
SITE 1	WESERN HIGHLAND LANDFILL	RVFS
SITE 2	1969-1970 LANDFILL	RVFS
SITE 3	WALKER BARN STORAGE AREA	RVFS
SITE 4	HOFFMAN ROAD LANDFILL	RVFS
SITE 5	CURRENT LANDFILL	RVFS
SITE 6	FUEL FARM 3	RVFS
SITE 7	PESTICIDE RINSEATE DISPOSAL	RVFS

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
 INSTALLATION RESTORATION PROGRAM
 (FY 86)**

WASHINGTON

Site Name	Description	Projects
SITE 8	RUNWAY DITCHES	RVFS
SITE 9	OLD AULT FIELD COAL PILE	RVFS
SITE 10	AULT FIELD NOSE HANGARS	RVFS
SITE 11	FUEL TRUCK DEPOT	RVFS
SITE 12	AULT FIELD SEWAGE CLARIFIER	RVFS
SITE 13	BOILER PLANT OIL SPILL	RVFS
SITE 14	HANGAR 5	RVFS
SITE 16	NW APRON AREA	RVFS
SITE 17	PCP DIP TANK	RVFS
SITE 18	BLDG 120 TRANSFORMER SERVICE AEA	RVFS
SITE 19	ABANDON AULT FIELD OIL TANKS	RVFS
SITE 20	1966 FIRE SCHOOL	RVFS
SITE 21	CHAPEL FIRE SCHOOL	RVFS
SITE 22	CLOVER VALLEY ROAD FIRE SCHOOL	RVFS
SITE 23	RUNWAY FIRE SCHOOL	RVFS
SITE 24	BLDG 889 TRANSFORMER SERVICE	RVFS
SITE 25	RUNWAY DITCHES AFCCA	RVFS
SITE 26	FUEL FARM 2	RVFS
SITE 27	FUEL FARM 1	RVFS
SITE 28	ABANDONED SEAPLANE BASE OIL TANK	RVFS
SITE 29	SEAPLANE BASE, SEWAGE CLARIFIER	RVFS
SITE 30	AUTO SHOP	RVFS
SITE 31	SEAPLANE BASE COAL PILE	RVFS
SITE 32	BLDG 25&26 DISPOSAL AREA	RVFS
SITE 33	GAS TANK LEAK	RVFS
SITE 34	SEAPLANE BASE GAS STATION	RVFS
SITE 35	SEAPLANE NOSE HANGAR	RVFS
SITE 36	TCE TANK	RVFS
SITE 37	SALVAGE YARD	RVFS
SITE 38	SEAPLANE BASE LANDFILL	RVFS

**** NSB BANGOR (NAVY)**

SITE 1	MANCHESTER PCB CONT	RVFS
SITE 2	DEMOL WASTE DISP SITE	RVFS
SITE 3	FORMER ORDNANCE BURNING	RVFS
SITE 4	OLD CISTERN FILLED W/ GREEN LIQUID	RVFS
SITE 5	BURIED PESTICIDES	RVFS
SITE 6	DUNNAGE CANYON	RVFS
SITE 11	MANCHESTER LEAD CONT	RVFS
SITE 12	METALLURGY FAC RUBBLE	RVFS
SITE 17	EGD TEST RANGE	RVFS
SITE 18	FLORAL PT	RVFS
SITE 30	OLD ACID PIT	RVFS
SITE 32	DEMIL OPS WW DIS	RVFS
SITE 35	FORMER WW DISCHAR	RVFS
SITE 36	GARBAGE AND ORDNANCE DISP AREA	RVFS

**** NUWES KEYPORT (NAVY)**

SITE 1	LANDFILL	RVFS
SITE 2	NORTH END LANDFILL INDIAN ISLAND	RVFS

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

WASHINGTON

Site Name	Description	Project
SITE 9	BURIED IMHOFF TANKS	RI/FS
SITE 10	VAN METER REDISPOSAL	RI/FS
SITE 17	NUWES LIBERTY BAY SHORELINE	RI/FS
SITE 21	BLDG 86 FILL INDIAN ISLAND	RI/FS

**** FAIRCHILD AFB (AIR FORCE)**

SITE 1	PS-3	RI
SITE 2	PS-4	RI
SITE 3	PS-2	RI
SITE 4	OB-1	RI
SITE 5	OS-7	RI
SITE 6	PS-1	RI
SITE 7	IS-4	RI
SITE 8	FT-1	RI
SITE 9	IS-1	RI
SITE 10	SW-1	RI
SITE 11	SW-8	RI
SITE 12	WW-1	RI
SITE 13	IS-3	RI

**** MCCORD (AIR FORCE)**

SITE 1	D5 LANDFILL/BURNING TRENCH	RI/FS
SITE 2	D7 BASE LANDFILL	RI/FS
SITE 3	D39 BASE LANDFILL/BURNING TRENCH	RI/FS
SITE 4	SITE 4 LANDFILL	RI
SITE 5	D6 BASE LANDFILL	FS
SITE 6	C54 LEACH PIT	RA
SITE 7	JP-4 SPILL SITES 34 AREA A	RA
SITE 8	SITE A2 BASE LANDFILL	RA
SITE 9	JP-4 SPILL SITES 46 AREA A	RA
SITE 10	SITE C37 POL SPILL/DISPOSAL	RA
SITE 11	C42 FUEL SPILL	RA
SITE 12	LEACH PIT C 57	HA
SITE 13	PROVIDE BOTTLED WATER TO ALG	RA
SITE 14	APPROPRIATE DISPOSAL REIMBURSEMENT	RA
SITE 16	BURIAL PIT	RA

WISCONSIN

Site Name	Description	Project
** GEN. BILLY MITCHELL FIELD (AIR FORCE)		
SITE 1	FIRE TRAINING AREA	RI
SITE 2	M W STORAGE AREA	RI
SITE 3	POL AREA 71	RI
SITE 4	STORAGE AREA 2	RI

**** VOLF FIELD ANG (AIR FORCE)**

SITE 7	LANDFILL C	RI/FS
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**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

WISCONSIN

Site Name	Description	Project
** VOLK FIELD ANG (AIR FORCE)		
SITE 5	KC-97 CRASH SITE	RI/FS
** VOLK FIELD ANG (AIR FORCE)		
SITE 1	CHRONIC FUEL SPILL SITE	RI/FS
SITE 2	JP-4 SPILL SITE	RI/FS
SITE 3	FIRE TRAINING AREA	RI/FS
SITE 4	TRANSFORMER FLUID DISPOSAL SITE	RI/FS
SITE 6	MUNITIONS BURIAL SITE	RI/FS
SITE 8	FUEL SPILL	RI/FS
SITE 9	LANDFILL A	RI/FS

WEST VIRGINIA

Site Name	Description	Project
** WEST VIRGINIA ORDNANCE WORKS (ARMY)		
SITE 2	TNT AREA	RI/FS
SITE 3	BURNING GROUNDS	RI/FS
SITE 4	PROCESS SEWER LINES	RI/FS
SITE 5	YELLOW WATER/ACID AREA	RI/FS
SITE 6	RED WATER RESVRS AREA	RI/FS
SITE 7	POND B AREA	RI/FS
** SHEPHERD FIELD (AIR FORCE)		
SITE 1	DRAINAGE AREA	RI/FS
SITE 2	SHIPPING/RECEIVING AREA	RI/FS
SITE 3	FIRE TRAINING AREA	RI/FS

WYOMING

Site Name	Description	Project
** F.E. WARREN AFB (AIR FORCE)		
SITE 1	BLDG 400 MORGAS SPILL	RI
SITE 2	ACID CRY WELL WEST OF BLDG 826	RI/RA
SITE 3	BLDG 810 SPILL	RI
SITE 4	BLDG 330 SPILL	RI
SITE 5	BLDG 1250 SPILL	RI
SITE 6	BLDG 336 SPILL	RI
SITE 7	LANDFILL 2	RI
SITE 8	LANDFILL 3	RI
SITE 9	LANDFILL 4	RI
SITE 10	LANDFILL 5	RI
SITE 11	LANDFILL 6	RI
SITE 12	BLDG 316 SPILL	RI
SITE 13	FPTA 1	RI
SITE 14	FPTA 2	RI

APPENDIX C

DEFINITIONS

- PA/SI - Preliminary Assessment/Site Inspection. The PA includes collection and review of available information (installation records, employee interviews, technical data and reports, etc.). The SI comprises a physical inspection of the identified sites, and in some cases, limited sampling information. This step was formerly called Phase I, Installation Assessment, under the DoD IRP.
- RI/FS - Remedial Investigation/Feasibility Study. These steps may be conducted concurrently. The RI consists of sampling and field studies whose goals are to determine the nature and extent of contamination at a site and the direction and rate of migration, if applicable. The FS is used to develop and analyze various response alternatives and recommend appropriate remedial actions. The RI part of this step was formerly called Phase II - Confirmation Studies under the DoD IRP. These Phase II studies also included the FS step, except by the Air Force who included the FS in their Phase IV work.
- RD/RA - Remedial Design/Remedial Action. This includes the engineering design, construction and operation of the cleanup alternative selected on the basis of providing the most protection to human health and the environment as well as permanence, reliability and cost. It may include groundwater cleanup, containment or other structures to prevent migration of contaminants, decontamination/treatment processes to remove or detoxify contaminants, and long-term monitoring systems. This step was formerly called Phase IV, Remedial Action, under the DoD IRP.
- LTM - Long Term Monitoring

TAB C

Installation Restoration Program Defense Priorities
List for Fiscal Year 1987

INSTALLATION RESTORATION PROGRAM
DEFENSE PRIORITIES LIST

FOR
FISCAL YEAR 1987



OFFICE OF THE DEPUTY ASSISTANT SECRETARY OF DEFENSE
(ENVIRONMENT)

WASHINGTON, D.C. 20301-8000

JANUARY 1987

The Department of Defense (DoD), like private industry, engages in many industrial and manufacturing operations and, in the course of doing so uses large amounts of industrial chemicals to accomplish its mission. Although, in the past wastes from these operations were disposed of by accepted practices, we have found that past practices may have resulted in inadvertent environmental contamination and risks to people and the environment. To deal with these problems, the department has a comprehensive program to identify, investigate, and clean-up contamination from toxic and hazardous substances and wastes, on current and formerly used DoD installations.

The Installation Restoration Program (IRP) is centrally managed at the Office of the Secretary of Defense and is carried out by military services and defense agencies. Like the Environmental Protection Agency (EPA) Superfund program, the DoD's IRP is consistent with the National Contingency Plan (NCP). The cleanup of sites proceeds in the following steps: Preliminary Assessment/Site Inspection (PA/SI), Remedial Investigation/Feasibility Study (RI/FS), and Remedial Action (RA including remedial designs, RD). Appendix A provides additional information on these steps. Removal actions for imminent threats are, of course, carried out immediately upon discovery.

Central to the IRP's effectiveness is DoD's ability to set priorities, select remedies and establish schedules at sites, taking into full consideration the level of contaminations and the impact on surrounding communities. Since each site presents a different risk to people and environment, and cleanup is costly, the Department has established a priority system to assure its sites are addressed on a "worst first" basis. This enables us to use scarce funds in the most beneficial way.

We are developing a comprehensive priority ranking system in concert with the EPA, other federal agencies, States, and the public. Pending completion of the comprehensive system, the Deputy Assistant Secretary of Defense (Environment) (DASD(E)) has developed the following interim criteria for use by the military services in the current fiscal year:

- Priority A - Sites that have been recommended for or included in the EPA National Priorities List and other sites which pose an imminent and substantial danger to people or the environment.
- Priority B - Requirements at sites not posing as high a potential risk and therefore not classified as Priority A.
- Priority C - All requirements that are not classified as Priority A or B including all non-site related requirements.

The services have applied these criteria and categories of cleanup action to their sites and have submitted their requirements. The table below summarizes the FY 87 effort within these priorities. Appendix B provides a detailed listing of sites arranged by priority and service; Appendix C provides the same information sorted by State. The DASD(E) has allocated \$327 million to the services to carry out the IRP at these locations.

Summary of Hazardous Waste Sites
FY 87 IRP
Defense Priorities List

Service/Agency	Priorities			Total
	A	B	C	
ARMY	96	33	146	275
NAVY	126	438	165	729
AIR FORCE	138	465	313	916
DEFENSE LOGISTICS AGENCY	12	0	1	13
TOTAL SITES	372	936	625	1533

For information regarding activity at a specific site please contact the military service or installation indicated. For additional copies of information regarding the DPL, please contact the Office of the Deputy Assistant Secretary of Defense (Environment), The Pentagon, Room 3D833, Washington, D.C. 20301-8000.

APPENDIX A

DoD PRIORITIZATION

FY 87 Interim Criteria

- Priority A - Sites that have been recommended for or included in the Environmental Protection Agency (EPA) National Priorities List (NPL) and other sites which pose an imminent and substantial danger to people or the environment. (Note: The EPA NPL, unlike the DPL, is a list that is based on a rigid Hazard Rating System with a lower cutoff score. The result is a limited listing of sites presenting a relatively high hazard potential. In contrast, the DPL, in this report, lists all sites projected to need additional investigation or cleanup, including those which present a lesser hazard.)
- Priority B - Requirements at sites not posing as high a potential risk and therefore not classified as Priority A.
- Priority C - All requirements not classified as Priority A or B, including all non-site related requirements.

DEFINITIONS

- PA/SI - Preliminary Assessment/Site Inspection. The PA includes collection and review of available information (installation records, employee interviews, technical data and reports, etc.). The SI comprises a physical inspection of the identified sites, and in some cases, limited sampling information. This step was formerly called Phase I, Installation Assessment, under the DoD IRP.
- RI/FS - Remedial Investigation/Feasibility Study. These steps may be conducted concurrently. The RI consists of sampling and field studies whose goals are to determine the nature and extent of contamination at a site and the direction and rate of migration, if applicable. The FS is used to develop and analyze various response alternatives and recommend appropriate remedial actions. The RI part of this step was formerly called Phase II - Confirmation Studies under the DoD IRP. These Phase II studies also included the FS step, except by the Air Force who included the FS in their Phase IV work.
- RD/RA - Remedial Design/Remedial Action. This includes the engineering design, construction and operation of the cleanup alternative selected on the basis of providing the most protection to human health and the environment as well as permanence, reliability and cost. It may include groundwater cleanup, containment or other structures to prevent migration of contaminants, decontamination/treatment processes to remove or detoxify contaminants, and long-term monitoring systems. This step was formerly called Phase IV, Remedial Action, under the DoD IRP.

APPENDIX B

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY A *

Site Name	Description	Project
** ABERDEEN PRVG GRND, ABERDEEN, MD (ARMY)		
SITE 1	J-FIELD	RI/FIS
SITE 2	CARROL ISLAND	RI/FIS
SITE 3	GRACES QRTS	RI/FIS
SITE 4	O-FIELD	RI/FIS
SITE 5	CANAL CREEK	RI/FIS
SITE 6	NIKE SITE	RI/FIS
SITE 7	WHITE PHOSPHORUS DISPOSAL	RI/FIS
SITE 8	STUDY	RI/FIS
** ALABAMA AAP, AL (ARMY)		
SITE 001	MAGAZINE AREA	RA
SITE 002	OLD BURNING GROUNDS	RA
SITE 003	SMALL ARMS BALLASTICS RANGE	RA
SITE 004	OLD WELL	RA
SITE 005	PROPELLANT SHIPPING HOUSES	RI/FIS
SITE 006	RUBBLE PILE	RA
** ANNISTON AD, AL (ARMY)		
SITE 1	BLDG 114	RA
SITE 2	Z-1	RA
SITE 3	BLDG 130	RA
SITE 4	LANDFILL (SOUTH)	RA
SITE 5	OTHER (OPTION OF GWTS)	RA
** CORNHUSKER AAP, NE (ARMY)		
SITE 2	EARTHEN IMPOUNDMENTS (S6)	RA
** FORT DEK, NJ (ARMY)		
SITE 3	TCE DUMPSITE	RI/FIS
SITE 4	NPL LANDFILL	RI/FIS
SITE 5	DIO MAINTENANCE	RI/FIS
SITE 6	DIO TRANS DIV MOTOR POOL	RI/FIS
SITE 7	OPT AVIATION DIV	RI/FIS
SITE 8	DEH MOTOR POOL	RI/FIS
SITE 9	AAFES PX SERVICE STATION	RI/FIS
SITE 10	5TH BDE MOTOR POOL	RI/FIS
SITE 11	5TH BDE MAINTENANCE	RI/FIS
SITE 12	2:5 BN MOTOR POOL	RI/FIS
SITE 13	3:5 BN MOTOR POOL	RI/FIS
SITE 14	78TH DIV RESERVES ECS 26	RI/FIS
SITE 15	DPCA AUTO CRAFT SHOP	RI/FIS
SITE 16	511/759TH M.P. MOTOR POOL	RI/FIS
SITE 17	556TH MED AMB MOTOR POOL	RI/FIS
SITE 18	39TH ENGR MOTOR POOL	RI/FIS
** FORT LEWIS, WA (ARMY)		
SITE 2	FIRE PIT/EOO RANGE	RI/FIS
SITE 3	LANDFILL 5	RI/FIS
** JOLIET AAP, IL (ARMY)		
SITE 1	MANUFACTURING AREA	RI/FIS

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY A *

Site Name	Description	Project
** LAKE CITY AAP, MO (ARMY)		
SITE 1	LANDFILL AND OTHERS	RI/FS
** LETTERKENNY ARMY DEPOT, PA (ARMY)		
SITE 1	OPDO AREA	RA
SITE 3	LAGOON	RA
** LONE STAR AAP, TX (ARMY)		
SITE 5	MIGRATION MANAGEMENT	RI/FS
SITE 6	OLD DEMOLITION GROUNDS	RI/FS
SITE 7	OLD WELLS AND CISTERNS	RI/FS
** LOUISIANA AAP, LA (ARMY)		
SITE 1	AREA P	RI/FS
SITE 2	BGS	RI/FS
SITE 4	LANDFILL 8	RI/FS
SITE 5	LANDFILL 3	RI/FS
** MILAN AAP, TN (ARMY)		
SITE 2	OPEN BURNING/OPEN DETONATION AREA	RI/FS
** ROCKY MOUNTAIN ARSENAL, CO (ARMY)		
	BASIN F	RI/FS
	BASIN F REMOVAL ACTION	RI/FS
	PILOT DEMO TO DECON SOIL	RI/FS
	RI/FS ON ALL SITES	RI/FS
** SACRAMENTO AD, CA (ARMY)		
SITE 1	OXIDATION LAGOON	RI/RA
SITE 2	BURN PIT	RA
** SAVANNA ADA, IL (ARMY)		
SITE 1	WASHOUT LAGOON IMPOUNDMENT	RA
SITE 2	WASHOUT LAGOON IMPOUNDMENT	RA
SITE 3	WASHOUT LAGOON IMPOUNDMENT	RA
SITE 4	WASHOUT LAGOON IMPOUNDMENT	RA
SITE 5	WASHOUT LAGOON IMPOUNDMENT	RA
SITE 6	WASHOUT LAGOON IMPOUNDMENT	RA
** SHARPE ARMY DEPOT, CA (ARMY)		
SITE 1	SOUTH BALLOON AREA	RI/RA
SITE 2	NORTH BALLOON AREA	RI/FS
** TOOELE AD, UT (ARMY)		
SITE 2	INDUSTRIAL WASTE POND	RI/FS
SITE 5	PITS (UNKNOWN NUMBER)	RI/FS
SITE 6	MUSTARD HOLDING AREA	RI/FS
SITE 7	EXPLOSION CRATERS	RI/FS
SITE 8	WINDOWS	RI/FS
SITE 9	CANDS	RI/FS
SITE 10	GRAVEL PIT	RI/FS
SITE 11	DRAINAGE PONDS	RI/FS
SITE 12	SPOIL AREA	RI/FS

02/27/87

DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST

* PRIORITY A *

Site Name	Description	Project
** TWIN CITIES AAP, MN (ARMY)		
SITE 1	SLUDGE AND SUMP ANALYSIS	RI/RA
SITE 2	A-L	RI/RA
SITE 3	129-3	RI/RA
SITE 4	129-5	RI/RA
SITE 5	129-17	RI/RA
SITE 6	A	RI/RA
SITE 7	B	RI/RA
SITE 8	C	RI/RA
SITE 9	D	RI/RA
SITE 10	E	RI/RA
SITE 11	F	RI/RA
SITE 12	G	RI/RA
SITE 13	H	RI/RA
SITE 14	I	RI/RA
SITE 15	J	RI/RA
** UMATILLA ADA, OR (ARMY)		
SITE 1	WASHOUT LAGOON	RI/FS
** WELDON SPRING TRAINING AREA, MO (ARMY)		
SITE 1	DOE/DA MOU	RI/FS
** WEST VIRGINIA ORDNANCE WORKS, WV (ARMY)		
SITE 2	TNT AREA	RA
SITE 3	BURNING GROUNDS	RA
SITE 4	PROCESS SEWER LINES	RI/FS
SITE 5	YELLOW WATER/ACID AREA	RA
SITE 6	RED WATER RESVRS AREA	RA
SITE 7	POND B AREA	RA
	
	
	
** NADC WARMUNSTER, PA (NAVY)		
SITE 1	FORMER BURN PIT	RI/FS
SITE 2	SLUDGE DISPOSAL AREA	RI/FS
SITE 3	WASTE DISPOSAL AREA	RI/FS
SITE 4	MAIN LANDFILL	RI/FS
SITE 5	BLDG 410 WASTE ENTRENCHMENT	RI/FS
SITE 6	WASTE PILES	RI/FS
SITE 7	WASTE ENTRENCHMENT	RI/FS
SITE 8	FIRE FIGHTING TRAINING AREA	RI/FS
** NAEC LAKEHURST, NJ (NAVY)		
SITE -	BOMARK SITE	RI/FS
SITE 1	BLUMP CRASH SITE	RI/FS
SITE 2	RSTS TRACK 2	RI/FS
SITE 3	DRAINAGE DITCH	RI/FS
SITE 4	DEADLOAD MAINTENANCE SHOP	RI/FS
SITE 5	ARRESTING ENGINE TRACK 2, BLDG 371	RI/FS

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY A *

Site Name	Description	Project
SITE 6	CATAPULT TEST FAC.	RI/FS
SITE 7	CATAPULT TEST STOR AREA	RI/FS
SITE 8	ARRESTING ENGINE TRACK, BLDG 529	RI/FS
SITE 9	HANGAR 2 DISPOSAL AREA	RI/FS
SITE 10	FUEL TRUCK STOR AREA	RI/FS
SITE 11	HANGAR 5 DISPOSAL AREA	RI/FS
SITE 12	FUEL STOR FAC 141	RI/FS
SITE 13	FUEL FARM NO. 125	RI/FS
SITE 14	OLD FIRE FIGHTING SCHOOL	RI/FS
SITE 15	BLDG 562	RI/FS
SITE 16	NATTC FIRE FIGHTING TRAINING AREA	RI/FS
SITE 17	FUEL FARM NO 196	RI/FS
SITE 18	EXCHANGE GAS STATION	RI/FS
SITE 19	SATS CATAPULT (740) TEST SITE)	RI/FS
SITE 20	TETRAETHYL LEAD DISPOSAL SITE	RI/FS
SITE 21	JET-CAR MAINTENANCE SHOP	RI/FS
SITE 22	JET BLAST DEFLECTOR	RI/FS
SITE 23	DISPOSAL AREA	RI/FS
SITE 24	CATAPULT TEST SITE 7419	RI/FS
SITE 25	TEST DEPT DISPOSAL AREA	RI/FS
SITE 26	CONTRACTOR DISPOSAL AREA	RI/FS
SITE 27	RSTS SCRAP SITE	RI/FS
SITE 28	WEST FIELD HANGAR AREA	RI/FS
SITE 29	ORIGINAL BASE LANDFILL	RI/FS
SITE 30	RSTS TRACK 4 RECOVERY END	RI/FS
SITE 31	SANITARY LANDFILL	RI/FS
SITE 32	RSTS LAUNCHING END	RI/FS
SITE 33	REFUELER REPAIR SHOP DRYWELL	RI/FS
SITE 34	PARACHUTE JUMP CIRCLE	RI/FS
SITE 35	HELICOPTER REFUELING AREA	RI/FS
SITE 36	HANGAR 1 DISPOSAL AREA	RI/FS
SITE 37	FUEL DISPOSAL AREA	RI/FS
SITE 38	OIL SKIMMING AND SLUDGE DISPOSAL AREA	RI/FS
SITE 39	POL DISPOSAL AT HANGAR 3	RI/FS
SITE 40	SOIL STABILIZATION FIELD TEST	RI/FS
SITE 42	BASE LANDFILL	RI/FS
SITE 44	PCB STOR AND TESTING AREA	RI/FS

** NAS BRUNSWICK, ME (NAVY)

SITE 1	LANDFILL ORION ST(NORTH)	RI/FS
SITE 2	LANDFILL ORION ST (SOUTH)	RI/FS
SITE 3	NW BURIAL AREA	RI/FS
SITE 4	ACID/CAUSTIC PIT	RI/FS
SITE 7	OIL ACID/CAUSTIC PIT	RI/FS
SITE 8	PERIMETER ROAD DISPOSAL SITE	RI/FS
SITE 9	NEPTUNE DR. DISPOSAL SITE	RI/FS

** NAS MOFFETT FIELD, CA (NAVY)

SITE 1	RUNWAY LANDFILL	RI/FS
SITE 3	MARRIAGE ROAD DITCH	RI/FS
SITE 4	IW HOLDING PONDS	RI/FS
SITE 5	FUEL FARM FRENCH DRAIN	RI/FS
SITE 6	RUNWAY APRON	RI/FS

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY A *

Site Name	Number	Description	Project
SITE	7	HANGARS 2 AND 3	RI/FS
SITE	8	WASTE OIL TRANSFER AREA	RI/FS
SITE	9	OLD FUEL FARM	RI/FS
SITE	10	CHASE PARK AREA	RI/FS

**** NAS WHIDBEY ISLAND, WA (NAVY)**

SITE	-	RUNWAY DITCHES AFCCA	RI/FS
SITE	-	SEAPLANE BASE LANDFILL	RI/FS
SITE	2	WESERN HIGHLAND LANDFILL	RI/FS
SITE	3	1969-1970 LANDFILL	RI/FS
SITE	6	CURRENT LANDFILL	RI/FS
SITE	13	FUEL FARM 3	RI/FS
SITE	14	PESTICIDE RINSEATE DISPOSAL	RI/FS
SITE	16	RUNWAY DITCHES	RI/FS
SITE	17	OLD AULT FIELD COAL PILE	RI/FS
SITE	18	AULT FIELD NOSE HANGARS	RI/FS
SITE	19	FUEL TRUCK DEPOT	RI/FS
SITE	20	AULT FIELD SEWAGE CLARIFIER	RI/FS
SITE	21	BOILER PLANT OIL SPILL	RI/FS
SITE	22	HANGAR 5	RI/FS
SITE	23	NW APRON AREA	RI/FS
SITE	24	BUILDING 283 PCP DIP TANK	RI/FS
SITE	25	BLDG 120 TRANSFORMER SERVICE AEA	RI/FS
SITE	26	ABANDON AULT FIELD OIL TANKS	RI/FS
SITE	27	1966 FIRE SCHOOL	RI/FS
SITE	28	CHAPEL FIRE SCHOOL	RI/FS
SITE	29	CLOVER VALLEY ROAD FIRE SCHOOL	RI/FS
SITE	31	RUNWAY FIRE SCHOOL	RI/FS
SITE	32	BLDG 889 TRANSFORMER SERVICE	RI/FS
SITE	35	FUEL FARM 2	RI/FS
SITE	36	FUEL FARM 5	RI/FS
SITE	37	ABANDONED SEAPLANE BASE OIL TANK	RI/FS
SITE	38	SEAPLANE BASE, SEWAGE CLARIFIER	RI/FS
SITE	39	AUTO SHOP	RI/FS
SITE	40	SEAPLANE BASE COAL PILE	RI/FS
SITE	41	BLDG 25&26 DISPOSAL AREA	RI/FS
SITE	42	CAS TANK LEAK	RI/FS
SITE	43	SEAPLANE BASE GAS STATION	RI/FS
SITE	44	SEAPLANE NOSE HANGAR	RI/FS
SITE	45	TCE TANK	RI/FS
SITE	48	SALVAGE YARD	RI/FS

**** NSB BANGOR, WA (NAVY)**

SITE	6	OLD CISTERN FILLED W/ GREEN LIQUID	RI/FS
SITE	A	EOD TEST RANGE	RI/FS
SITE	B	FLORAL PT.	RI/FS
SITE	D	FORMER ORDNANCE BURNING	RI/FS
SITE	E	OLD ACID PIT	RI/FS
SITE	F	DEMIL WASTE DISP SITE	RI/FS
SITE	F	DEMIL OPS. WW DISP. SITE	RI/FS
SITE	11	BURIED PESTICIDES	RI/FS
SITE	12	DUNNAGE CANYON	RI/FS
SITE	24	LIQUID WASTE INCIN.	RI/FS
SITE	25	DINITROBENZENE AREA	RI/FS

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY A *

Site Name	Description	Project
SITE 101	FORMER WW DISCHAR.	RI/FS
SITE 103	GARBAGE AND ORDNANCE DISP. AREA	RI/FS
** NUWES KEYPORT, WA (NAVY)		
SITE -	BURIED IMHOFF TANKS	RI/FS
SITE 1	LANDFILL	RI/FS
SITE 2	VAN METER REDISPOSAL	RI/FS
SITE 9	LIBERTY BAY-SHORELINE	RI/FS
SITE 10	NORTH END LANDFILL-INDIAN ISLAND	RI/FS
SITE 21	BLDG 86 FILL-INDIAN ISLAND	RI/FS
** NWS EARLE COLTS NECK, NJ (NAVY)		
SITE -	UNNAMED TRIBUTORS	RI/FS
SITE 2	ORDNANCE DEMILITARIZATION SITE	RI/FS
SITE 3	LANDFILL SW OF "F"	RI/FS
SITE 4	LANDFILL WEST OF "D"	RI/FS
SITE 5	LANDFILL WEST OF ARMY BRIGADE	RI/FS
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** AFP NO.42, PALMDALE, CA (AF)		
SITE 2-1	PAINT WASTE DISP. DITCH	RI/FS
SITE 2-9	FUEL CONTAMINATED DITCH	RI/FS
** AFP PJXS WATERTON, CO (AF)		
SITE 01	T-8A CONTAMINATION POND	RI/FS
SITE 03	EPL BLDG T-8 AND T-20A	RI/FS
SITE 04	HYDRAZINE SPILL, TANK T-31	RI/FS
SITE 05	O-1 LANDFILL	RI/FS
SITE 06	DIESEL TANK T-23	RI/FS
SITE 07	TEST FAC. STORAGE	RI/FS
SITE 08	NO. 6 DIESEL FUEL BELOW D 1	RI/FS
SITE 09	DRAINAGE FLUMES	RI/FS
SITE OT 01	EPL TEST CELLS, VALVE SHOP STOR. AREA	RI/FS
** ANDREWS AFB, MD (AF)		
SITE OS 01	OP-1, BRANDYWINE OPPO STORAGE YARD	RI/RA
** ARNOLD AFS, TN (AF)		
SITE 01	LANDFILL 2, LEACHATE PIT 2	FS/RO
** BEALE AFB, CA (AF)		
SITE 01	DISCHARGE AREA 1	RI
** CASTLE AFB, CA (AF)		
SITE LF 01	LANDFILL 1	RA
SITE TCE 5	TCE SITE 5	RO
SITE TCE 7	TCE SITE 7	RO

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY A *

Site Name	Description	Project
** DOVER AFB, DE (AF)		
SITE D-4	LIQUID WASTE DISPOSAL	RI/FS
SITE D-5	SANITARY LANDFILL	RI
SITE S-1	HAZARDOUS WASTE STORAGE AREA	RI
SITE T-1	INDUSTRIAL WASTE LAGOON	RI/FS
SITE XYZ	MAIN FUEL PUMPING MANHOLES	RI
SITE D 02	CONSTRUCTION RUBBLE	RI
SITE D-04	LIQUID WASTE DISPOSAL	RO
SITE D-10	SANITARY LANDFILL	RI
SITE DD-1	NORTH DRAINAGE DITCH	RI/FS
SITE FT-1	FPTA 1	RI
SITE FT-2	FIRE TRAINING AREA	RI
SITE FT-3	FPTA 3	RI
SITE SP-4	JP-4 PIPELINE LEAK	RI
SITE T-01	RAP PROCESS, IND. WASTE LAGOON	RO
SITE DD-01	RAP PROCESS, N. DRAINAGE DITCH	RO
SITE SP-09	RAP PROCESS	RO
** F.E. WARREN AFB, WY (AF)		
SITE 04	BLDG 1250 SPILL	RI
** GRIFFISS AFB, NY (AF)		
SITE OT 04	DRYWELL BLDG 3	RA
** HANSCOM AFB, MA (AF)		
SITE FT 02	FIRE TRAINING 4	RA/RO
SITE LF 02	SANITARY LANDFILL	RA/RO
SITE WP 01	JET FUEL TANK SLUDGE	RA/AD
SITE WP 02	PAINT WASTE DISPOSAL	RA/RO
** HILL AFB, UT (AF)		
SITE 07	ECD BURN SITE	RI
SITE 08	SPOIL PIT	RI
SITE 09	PERIMETER ROAD	RI
SITE 10	SWAMP LEACH FIELD	RI
SITE 11	POND 3	RI
SITE 19	US ARMY TOOELE RAIL SHOP	RI
SITE FT 01	FPTA 1	RI
SITE LF 01	LANDFILL 1	RI/FS
SITE LF 02	LANDFILL 2	RI/FS
SITE LF 03	LANDFILL 3	RI/FS
SITE LF 04	LANDFILL 4	RI/FS
SITE LF 05	LANDFILL 5-UTTR. SITE 6	RI
SITE LU 01	B22 UNDER GROUND TANKS	RI
SITE OT 01	HERBICIDE ORANGE TEST PLOT	RI
SITE OT 02	IWTP DRYING BED	RI/FS
SITE OT 03	LITTLE MTN. DRYING BEDS	RI/FS
SITE OW 01	BAMBURGER POND	RI
SITE SS 01	JP-4 SPILL REFUELING AREA	RI
SITE SS 02	SODIUM HYDROXIDE SPILL	RI/FS
SITE WP 01	BERMAN POND	RI
SITE WP 02	CHEMICAL DISPOSAL PIT 3	RI/FS
SITE WP 03	CHEMICAL DISPOSAL PIT 1 & 2	RI/RA

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY A *

Site Name	Description	Project
** KELLY AFB, TX (AF)		
SITE D-2	LANDFILL	RI/FS
SITE D-4	LANDFILL	RI/FS
SITE D-6	LANDFILL	RI
SITE E-1	CHEMICAL EVAPORATION PIT	FS
SITE S-2	DPDO STORAGE YARD	RI/FS
SITE S-3	MAINTENANCE STORAGE AREA	RI
SITE S-4	FUEL SPILL AREA	FS
SITE S-6	FUEL SPILL AREA	RI
SITE S-7	HERBICIDE STORAGE AREA	RI
SITE FC-1	FCTA	RI
SITE FC-2	FCTA	RI
SITE IS-1	STILL SPILL AREA	RI
SITE RD-1	RADIOACTIVE DISPOSAL AREA	RI
SITE RD-2	RADIOACTIVE DISPOSAL AREA	RI
SITE SA-2	SLUDGE SPREADING AREA	RI
SITE SA-3	SLUDGE SPREADING AREA	RI
SITE SD-2	SLUDGE DRYING BED	RI
SITE LU 01	GREEN WORM AREA	RA/RC
SITE WP 01	CS-1, WASTE SITE	RI
** LORING AFB, ME (AF)		
SITE 02	ZONE 1 LNDFL 2	RI
** MATHER AFB, CA (AF)		
SITE PL-12	ACW SITE NPL-12	FS
** MCCORD AFB, WA (AF)		
SITE C 54	C54 LEACH PIT	RA
** MINN STPAUL IAP, MN (AF)		
SITE 01	SMALL ARMS RANGE LANDFILL	FS
** OTIS AFB, MA (AF)		
SITE 03	14 SITE STUDY	RI/FS
SITE SD-1	SD-1, SD-2, SD 5 CLEAN-UP	RA
** PEASE AFB, NH (AF)		
SITE 08	FPTA 2	RI/RO
** ROBINS AFB, GA (AF)		
SITE 01	FTA 4	RI
SITE 02	PCB SPILL	RI
SITE 03	WATER WELLS	RI
SITE FT 01	FTA 1	RI
SITE FT 02	FTA 2	RI
SITE FT 03	FTA 3	RI/FS
SITE LF 01	LANDFILL 1	RI
SITE LF 02	LANDFILL 2	RI
SITE LF 03	LANDFILL 3	RI
SITE LF 04	LANDFILL 4	RI
SITE RW 01	RADIOACTIVE WASTE DISPOSAL SITE	RI/FS
SITE WP 01	HAZ WASTE DISPOSAL SITE	RI
SITE WP 02	LABORATORY CHEM BURIAL	RI

02/27/87

DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
 INSTALLATION RESTORATION PROGRAM
 FY87 DEFENSE PRIORITIES LIST

* PRIORITY A *

Site Name	Description	Project
SITE WP 03	SLUDGE LAGOON	RI
** TINKER AFB, OK (AF)		
SITE 02	POL TANK FARM/AUST	RI/RA
SITE 02	FDTA 2	RI/FS
SITE 03	WELLS 18 AND 19	RI
SITE FT 01	FDTA 1	RI/FS
SITE LF 01	LANDFILL 1	RI/FS
SITE LF 02	LANDFILL 2	RI/FS
SITE LF 03	LANDFILL 3	RI/FS
SITE LF 04	LANDFILL 4	RI/FS
SITE LF 05	LANDFILL 5	RI/FS
SITE LF 06	LANDFILL 6	RI/RD
SITE OT 01	BLDG 3001	RI/RD
SITE OT 02	CRUTCHO CREEK	RI/FS
SITE OT 03	EAST SOLDIER'S CREEK	RI
SITE OT 04	FACILITY 1123	RI
SITE OT 06	RWDS 1022E	RI
SITE OT 07	RWDS 1030W	RI/FS
SITE OT 08	RWDS 201S	RI/FS
SITE OT 09	RWDS 62598	RI
** WRIGHT-PATTERSON AFB, OH (AF)		
SITE 03	AREAS A, B, AND C	RA/RD
SITE FT 01	FDTA 1	RI
SITE FT 02	FDTA 2	RI
SITE FT 3*	FDTA 3 AND 4, SPILL #1	RI
SITE LF 01	LANDFILL 1	RI
SITE LF 02	LANDFILL 10	RI
SITE LF 03	LANDFILL 11	RI
SITE LF 04	LANDFILL 12	RI
SITE LF 05	LANDFILL 13	RI
SITE LF 06	LANDFILL 2	RI
SITE LF 07	LANDFILL 5 TWIN LAKES	RI
SITE LF 08	LANDFILL 8	RI
SITE LF 09	LANDFILL 9, SANDY HILL	RI
SITE LF 10	LANDFILL 3,4,6 AND 7	RI
SITE OT 01	CCAL STORAGE PILE	RI
SITE OT 02	CENTRAL HEAT PLANT 1, BLDG 66	RI
SITE OT 03	CENTRAL HEATING PLANT 2	RI
SITE SS 02	SPILL 2	RI
SITE SS 03	SPILL 3	RI
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** DCSC COLUMBUS, OH (DEFENSE LOGISTICS AGENCY)		
SITE 1	TRANSFER STORAGE AREA	RI/FS

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY A *

Site Name	Description	Project
** DDOU OGDEN, UT (DEFENSE LOGISTICS AGENCY) SITE 1 FORMER LANDFILLS		RI/FS
** DDTG TRACY, CA (DEFENSE LOGISTICS AGENCY) SITE 23 FORMER LANDFILLS		RI/FS
** DFSP CHARLESTON, SC (DEFENSE LOGISTICS AGENCY) SITE 1 TANK FARM		RA
** DFSP ESCANABA, OH (DEFENSE LOGISTICS AGENCY) SITE 1 TANK FARM		RI
** DFSP NORWALK, CA (DEFENSE LOGISTICS AGENCY) SITE 1 TANK FARM		RA
** DFSP OZOL, CA (DEFENSE LOGISTICS AGENCY) SITE 1 TANK FARM		RI/FS
** DFSP SAN PEDRO, CA (DEFENSE LOGISTICS AGENCY) SITE 1 TANK FARM SITE 2 WHARF		RI/FS RI/FS
** DGSC RICHMOND, VA (DEFENSE LOGISTICS AGENCY) SITE 1 FORMER AREA 50 LANDFILL SITE 4 FIRE TRAINING PITS		RI/FS RA
** DRMO CHARLESTON, SC (DEFENSE LOGISTICS AGENCY) SITE 1 ORMO STORAGE YARD		FS

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY B *

Site Name	Description	Project
** FORT BLISS, SC (ARMY)		
SITE 1	FIRE FIGHTING TRAINING AREA	RA
** FORT ORD, CA (ARMY)		
SITE 1	FIRE PRATICE AREA	RI/F5
SITE 2	LANDFILL	RI/F5
** IOWA AAP, IA (ARMY)		
SITE 1	PINK WATER LAGOON	RA
SITE 2	FORMER LINE 1 IMPOUNDMENT	RA
SITE 3	INERT LANDFILL	RI/F5
** PICATINNY ARSENAL, NJ (ARMY)		
SITE 3	SHELL BURIAL AREA B3150	RI/F5
SITE 4	CHEMICAL BURIAL PIT	RI/F5
SITE 9	ROCKET FUEL TEST G-2 AREA	RI/F5
SITE 10	ROCKET FUEL TEST G-1 AREA	RI/F5
SITE 11	ROCKET FUEL TEST AREA	RI/F5
SITE 12	ROCKET FUEL TEST AREA	RI/F5
SITE 13	SHELL BURIAL AREA B3100	RI/F5
SITE 14	MUNITIONS AND PROPELLANT AREA	RI/F5
SITE 15	MUNITIONS TEST RANGE	RI/F5
SITE 16	MUNITIONS WASTE PIT	RI/F5
SITE 17	MUNITIONS TEST AREA	RI/F5
SITE 19	MUNITIONS TEST DEBRIS	RI/F5
SITE 20	TETRYL PITS	RI/F5
SITE 21	TETRYL PITS	RI/F5
SITE 22	PYROTECHNICAL DEMO AREA	RI/F5
SITE 23	PYROTECHNIC TEST RANGE	RI/F5
SITE 25	SANITARY LANDFILL	RI/F5
SITE 26	SANITARY LANDFILL	RI/F5
SITE 27	DEDEGE PILE	RI/F5
SITE 28	MUNITIONS TEST AREA	RI/F5
SITE 29	POST FARM LANDFILL	RI/F5
** REDSTONE ARSENAL, AL (ARMY)		
SITE 2	OB/OO AREA	RI/F5
SITE 3	LANDFILL	RI/F5
SITE 4	OTHER	RI/F5
** RIVERBANK AAP, CA (ARMY)		
SITE 1	IWTP	RI/F5
SITE 2	ABANDON LANDFILL	RA
** WELDON SPRINGS CHEMICAL PLANT, WV (ARMY)		
SITE 1	WSCP DOE/DA MOU	RI/F5
	
	
	

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY B *

Site Name	Description	Project
** CBC GULFPORT, MS (NAVY)		
SITE	RUBBLE DISPOSAL AREA	RI/FS
SITE	MCALLISTER PT LANDFILL	RI/FS
SITE 1	FIRE FIGHTING TRAINING AREA	RI/FS
SITE 2	DISASTER RECOVERY DISPOSAL AREA	RI/FS
SITE 3	WW II LANDFILL	RI/FS
SITE 4	NW LANDFILL	RI/FS
SITE 5	GOLF COURSE LANDFILL	RI/FS
SITE 6	HEAVY EQ. TRAINING AREA LANDFILL	RI/FS
** CBC PORT HUENEME, CA (NAVY)		
SITE 1	NCEL STOR. YD	RI/FS
SITE 14	EARTH MOVING AREA	RI/FS
SITE 19	HARBOR AND CANALS	RI/FS
SITE 20	PROPOSED NTC BLDG SITE	RI/FS
** CPC DAVISVILLE, RI (NAVY)		
SITE 2	CEC BATT. ACID DISP AREA	RI/FS
SITE 3	CEC SOLVENT DISP AREA	RI/FS
SITE 4	CEC ASPHALT DISPOSAL	RI/FS
SITE 6	SOLVENT DISP.	RI/FS
SITE 7	CALF PASTURE PT.	RI/FS
SITE 8	OPDD FILM PROC. DISP	RI/FS
SITE 9	LANDFILL	RI/FS
SITE 10	CAMP FOGERTY DISP AREA	RI/FS
SITE 11	FIRE FIGHTING TRAINING AREA	RI/FS
SITE 12	OPDD TRANSFORMER OIL SPILL	RI/RA
SITE 13	DISP AREA NW OF BLDG W3, W4 AND T1	RI/FS
SITE 14	BLDG 38 TRANSFORMER LEAKS	RI/RA
** FCTC DAM NECK, VA (NAVY)		
SITE 1	REGULUS LANDFILL	RI/FS
SITE 2	FORMER PCB STOR	RI/FS
SITE 5	PW DISPOSAL AREA	RI/FS
SITE 6	FORMER PESTICIDE SHOP	RI/FS
** MCAGCC 29 PALMS, CA (NAVY)		
SITE 15	LANDFILL 2	RI/FS
** MCAS BEAUFORT, SC (NAVY)		
SITE 1	FENCED HAZARD AREA	RI/FS
SITE 2	LAFRENE RD LANDFILL	RI/FS
SITE 3	BARRROW LAY LANDFILL	RI/FS
SITE 5	PESTICIDE RESIDUE PIT	RI/FS
SITE 6	INERT LANDFILL SEEPAGE TRENCH	RI/FS
SITE 7	DAY TANK SPILL AREA	RI/FS
SITE 8	KAVIENG ST LANDFILL	RI/FS
SITE 10	TANK SLUDGE DISPOSAL AREA	RI/FS
SITE 11	FORMER GSE MAINTENANCE AREA	RI/FS
SITE 14	INERT LANDFILL	RI/FS
SITE 16	STORM SEWER OUTFALL	RI/FS
SITE 17	EASTERN FIRE TRAINING PITS	RI/FS

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY B *

Site Name	Description	Project
** MCAS CHERRY POINT, NC (NAVY)		
SITE 1	LANDFILL	R/FS
SITE 2	LANDFILL	R/FS
SITE 4	LANDFILL	R/FS
SITE 10	OLD SANITARY LANDFILL	R/FS
SITE 15	AREA AND DITCH BEHIND NALF	R/FS
SITE 16	LANDFILL AT SANDY BRANCH	R/FS
SITE 17	DPOO STORAGE AREA	R/FS
SITE 21	BORROW PIT/LANDFILL	R/FS
** MCAS EL TORO, CA (NAVY)		
SITE 1	ORDNANCE DISPOSAL AREA	R/FS
SITE 2	MAG. RD LANDFILL	R/FS
SITE 3	ORIG. LNDFL	R/FS
SITE 5	PERIMETER RD LNDFL	R/FS
SITE 17	COMM. STATION LNDFL	R/FS
** MCAS KANELOHE, HI (NAVY)		
SITE 1	H-3 LNDFL	R/RA
** MCAS TUSTIN, CA (NAVY)		
SITE 1	MOFFETT TRENCHES & CRASH PIT	R/RA
SITE 2	DISPOSAL AREA	R/FS
SITE 3	PAINT STRIPPER DISPOSAL AREA 1	R/FS
SITE 5	DRAINAGE NO. 1	R/FS
SITE 7	GND. ADJACENT TO ARPON	R/FS
SITE 8	DRAINAGE 1	RA
SITE 9	HANGAR 1	R/FS
SITE 15	BLIMP HANGAR	R/FS
** MCB CAMP LEJEUNE, NC (NAVY)		
SITE .	NEW RIVER OFFICERS HOUSING AREA	R/FS
SITE .	RAPID REFUELING SITE	R/FS
SITE 1	FRENCH CREEK LIQUIDS DISPOSAL AREA	R/FS
SITE 2	FORMER NURSERY/DAY CARE CENTER	R/FS
SITE 6	STORAGE LOTS 201 AND 203	R/FS
SITE 9	FIRE FIGHTING TRAINING PIT	R/FS
SITE 21	TRANSFORMER STORAGE LOT 140	R/FS
SITE 22	INDUSTRIAL TANK FARM AREA	R/FS
SITE 24	INDUSTRIAL FLY ASH DUMP	R/FS
SITE 28	HADNOT POINT BURN DUMP	R/FS
SITE 30	SNEADS FERRY ROAD FUEL TANK AREA	R/FS
SITE 41	CAMP GINGER DUMP	R/FS
SITE 45	UNDERGROUND AVGAS STORAGE	R/FS
SITE 48	NEW RIVER HOUSING DUMPSITE	R/FS
SITE 54	CRASH CREW FIRE TRAINING	R/FS
SITE 68	RIFLE RANGE DUMP	R/FS
SITE 69	RIFLE RANGE CHEMICAL DUMP	R/FS
SITE 73	LIQUID DISPOSAL	R/FS
SITE 74	MESS HALL GREASE PIT AREA	R/FS
SITE 75	BASKETBALL COURT SITE	R/FS
SITE 76	CURTIS ROAD SITE	R/FS

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY B *

Site Name	Description	Project
** MCB CAMP PENDLETON, CA (NAVY)		
SITE 3	PEST CONTROL WASHRACK DRAIN	R/RA
SITE 4	MCAF DRAINAGE DITCH	R/RA
SITE 5	FIRE FIGHTING DRILL FIELD	R/FS
SITE 6	DPOO SCRAP YARD	R/RA
** MCDEC QUANTICO, VA (NAVY)		
SITE 4	OLG LNDFL	R/FS
SITE 5	OLD BATCH PLANT	R/FS
SITE 7	RECENTLY CLOSED LANDFILL	R/FS
SITE 17	ARSENIC DISPOSAL AREA	R/FS
** MCLB ALBANY, GA (NAVY)		
SITE .	PENTACHLOROPHENOL DIP TANK	R/FS
SITE .	CLEANING TANK BLDG 572	R/FS
SITE 2	RUBBLE DISPOSAL AREA	R/FS
SITE 3	LONG-TERM LNDFL	R/FS
SITE 5	W. DISPOSAL AREA	R/FS
SITE 6	IND. DISCHARGE DRAINAGE DITCH	R/FS
** MCLB BARSTOW, CA (NAVY)		
SITE 2	PESTICIDE STOR. & WASHOUT	R/RA
SITE 9	FUEL DISPOSAL AREA	R/FS
SITE 18	SLUDGE WASTE AREA, YERMO	R/RA
SITE 21	IND. WASTE DISPOSAL AREA	R/RA
SITE 33	RIFLE RANGE DISPOSAL AREA	RA
** MCRD PARRIS ISLAND, SC (NAVY)		
SITE 1	INCINERATOR LNDFL	R/FS
SITE 3	CAUSEWAY LANDFILL	R/FS
SITE 4	DREDGE SPOILS AREA	R/FS
SITE 16	PAST RINSEATE DISPOSAL AREA	R/FS
** MAB CORONADO, CA (NAVY)		
SITE 4	SANDBLAST GRIT DISP AREA	R/FS
** MAB LITTLE CREEK, VA (NAVY)		
SITE .	SEWAGE TREATMENT PLANT LNDFL	R/FS
SITE .	LAUNDRY WASTE STORAGE AREA	R/FS
SITE 7	AMPHIB BASE LNDFL	R/FS
SITE 9	DRIVING RANGE LNDFL	R/FS
SITE 13	PW COMP POP DIP TANK AND WASH	R/FS
** MAPC TRENTON, NJ (NAVY)		
SITE 1	BAROMETRIC WELL	R/FS
SITE 2	BRINE HANDLING AND WEST END DRAINAGE	R/FS
SITE 3	FIRE FIGHTING AREA	R/FS
SITE 3	SLUDGE DISPOSAL	R/FS
SITE 4	BLOG 41 OVERHEAD FUEL LEAK	R/FS
SITE 5	BLOG 42 OVERHEAD FUEL LEAK	R/FS
SITE 6	OR. CONTAM. NEAR BLOG 34	R/FS
SITE 7	FORMER MORGAS TANK LEAK	R/FS

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY R *

Site Name	Description	Project
** NAS ADAK, AK (NAVY)		
SITE 13	METALS LNDFL	RI/FS
SITE .	ANDREW LAKE LANDFILL	RI/FS
SITE .	EXPLOSIVE ORDNANCE CONTAMINATED AREAS	RI/FS
SITE 14	PEST CONTROL DISP. AREA	RI/FS
SITE 29	FINGER BAY LANDFILL	RI/FS
** NAS AGANA, GU (NAVY)		
SITE 3	NAVMAG-EOD FORMER DEMO RANGE	RI/FS
** NAS ALAMEDA, CA (NAVY)		
SITE 1	WEST BEACH LANDFILL	RI/FS
SITE 2	1943,1956 DISPOSAL ARE	RI/FS
SITE 3	SEAPLANE LAGOON	RI/FS
SITE 4	AREA 97	RI/FS
SITE 5	BLDG 301 AND 389	RI/FS
SITE 6	CANS C-2 AREA	RI/FS
** NAS BARBERS POINT, HI (NAVY)		
SITE 1	CORAL SEA RD CORAL PIT	RI/FS
SITE 2	OROV POND	RI/FS
SITE 3	SANITARY LNDFL	RI/FS
** NAS CECIL FIELD, FL (NAVY)		
SITE 1	OLD LANDFILL	RI/FS
SITE 2	RECENT LNDFL	RI/FS
SITE 3	OIL SLUDGE PIT	RI/FS
SITE 4	GREASE PITS	RI/FS
SITE 5	OIL DIS. AREA NW	RI/FS
SITE 7	OLD FIRE FIGHTING TRAINING AREA	RI/FS
SITE 8	NW/FIRE FIGHTING TRAINING AREA	RI/FS
SITE 11	PESTICIDE DISP.	RI/FS
SITE 16	AUMD SEEPAGE PIT	RI/RA
SITE 17	OIL SLUDGE DISP PIT SW	RI/FS
** NAS CHASE FIELD, TX (NAVY)		
SITE .	FIRE FIGHTING TRAINING AREA	RI/FS
SITE 1	NW HUBBLE DISP AREA	RI/FS
SITE 2	SE DISP AREA	RI/FS
** NAS CORPUS CHRISTI, TX (NAVY)		
SITE	FUEL FARM 216	RI/RA
SITE 1	OPDD LNDFL	RI/FS
SITE 3	CCAD LIQUID WASTE DISP AREA	RI/FS
SITE 9	NORTH GATE DISPOSAL AREA	RI/FS
** NAS DALLAS, TX (NAVY)		
SITE 1	FORMER FIRE FIGHTING TRAINING AREA	RI/FS
SITE 4	HUBBLE LANDFILL	RI/FS
SITE 5	PCB LEAK	RI/FS
SITE 9	PAINT STRIPPING AREA	RI/FS
SITE 11	TANG AREA DRAINAGE DITCH	RI/FS

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY B *

Site Name	Description	Project
** NAS JACKSONVILLE, FL (NAVY)		
SITE 7	JP-4 EXPLOSION FUEL FARM	RA
SITE 11	HANGAR BUILDING 101	RA
SITE 12	OLD TEST CELL BLDG	RA
SITE 14	BATTERY SHOP	RA
SITE 15	SOLVENT AND PAINT SLUDGE	RA
SITE 16	STORM SEWER DISCHARGE BLACK POINT	RA
SITE 25	BLDG 2038	RA
SITE 26	OLD MAIN REGISTERED DISPOSAL AREA	RA
SITE 27	PCB STORAGE	RA
** NAS KEY WEST, FL (NAVY)		
SITE	NORTH LANDFILL	RVFS
SITE	SOUTH LNDFL	RVFS
SITE	TANK FARM	RVFS
SITE	FIRE FIGHTING TRAINING AREA	RVFS
SITE 2	TRANSFORMER OIL DISP AREA	RVFS
** NAS LEMORE, CA (NAVY)		
SITE 1	LANDFILL	RVFS
SITE 6	OPERATION AREA OPEN DITCH	RVFS
** NAS MEMPHIS, TN (NAVY)		
SITE	SEWAGE LAGOONS	RVFS
SITE 2	S. LNDFL	RVFS
SITE 3	N-121 PLATING SHOP DRY WELL	RVFS
SITE 4	N-121 PLATING SHOP SEWER DITCH	RVFS
SITE 7	N-126 PLATING SHOP DRY WELL	RVFS
** NAS MIRAMAR, CA (NAVY)		
SITE 1	FUEL FARM OPERATING AREA	RVFS
SITE 2	ROSE CANYON	RVFS
SITE 3	FISH POND	RVFS
SITE 5	SAN CLEMENTE CANYON DISPOSAL	RVFS
** NAS NORFOLK, VA (NAVY)		
SITE 1	PCB FIRE CONTAIN	RA
** NAS OCEANA, VA (NAVY)		
SITE	OLD STATIC ENVIR TEST CELL MG SPILL	RVFS
SITE 2	LINE SHACK OIL PIT	RVFS
SITE 14	LNDFL	RVFS
** NAS PATUXENT RIVER, MD (NAVY)		
SITE	AREA SOUTH OF BLDG 669	RVFS
SITE 4	HEXAMANELLE DROP SITE	RVFS
SITE 7	SLUDGE AT FFA STREAM	RVFS
SITE 8	ROAD SOUTH OF SUPPLY	RVFS
SITE 11	FORMER SANITARY LANDFILL	RVFS
SITE 14	FUEL FARM	RD
SITE 23	OPPO SALVAGE YD	RVFS
SITE 24	BLDG 114 DISCHARGES TO DRYWELL	RVFS
SITE 25	SOLVENT DROP BEHIND BLDG 114	RVFS

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY B *

Site Name	Description	Project
** NAS PENSACOLA, FL (NAVY)		
SITE 1	SAN. LNDFL	RI/RA
SITE 2	WATERFRONT SEDIMENTS	RI/FS
SITE 3	CRASH CREW TRAINING AREA	RI/FS
SITE 9	NAVY YARD DISPOSAL AREA	RI/FS
SITE 11	N. CHEVALIER FIELD DISPOSAL	RI/FS
SITE 15	PESTICIDE RINSEATE AREA	RI/RA
SITE 17	TRANSFORMER STOR.	RI/FS
SITE 19	FUEL FARM PIPELINE LEAK	RI/RA
SITE 21	SLUDGE DISPOSAL AT FUEL TANK	RI/FS
SITE 22	RFUELER REPAIR SHOP FUEL DISPOSAL	RI/FS
SITE 23	CHEVALIER FIELD PIPELINE LEAK	RI/FS
SITE 26	SUP DEPT OUTSIDE STOR	RI/FS
SITE 27	RADIUM TIAL SHOP SEWER	RI/FS
SITE 29	SOIL S. OF BLDG 3460	RI/FS
SITE 30	BLDG 649/755	RI/FS
SITE 31	BLDG 648	RI/FS
SITE 32	IND. SLUDGE DRYING BEDS	RI/FS
SITE 33	WWTP PONDS	RI/FS
SITE 34	BLDG 3557	RI/RA
** NAS WHITING FIELD, FL (NAVY)		
SITE 1	NW DISPOSAL AREA	RI/FS
SITE 3	UNDERGROUND WASTE SOLVENT STOR AREA	RI/FS
SITE 4	NORTH AVGAS TANK SLUDGE DISPOSAL AREA	RI/FS
SITE 5	BATTERY ACID SEEPAGE PIT	RI/FS
SITE 6	S. TRANSFORMER OIL DISPOSAL AREA	RI/FS
SITE 7	S. AVGAS TANK SLUDGE DISPOSAL AREA	RI/FS
SITE 8	AVGAS FUEL SPILL AREA	RI/FS
SITE 9	WASTE FUEL DISPOSAL AREA	RI/FS
SITE 10	SE OPEN DISPOSAL AREA A	RI/FS
SITE 11	SE OPEN DISPOSAL AREA B	RI/FS
SITE 12	TETRAETHYL LEAD DISPOSAL AREA	RI/FS
SITE 13	LANDFILL	RI/FS
SITE 14	SHORT TERM SANITARY LANDFILL	RI/FS
SITE 15	SW LANDFILL	RI/FS
SITE 16	OPEN DISPOSAL AND BURNING AREA	RI/FS
** NAS WILLOW GROVE, PA (NAVY)		
SITE 1	PRIVET RD COMPOUND	RI/FS
SITE 3	9TH ST LNDFL	RI/FS
SITE 4	NORTH END LNDFL	RI/FS
** MCS STOCKTON, CA (NAVY)		
SITE 1	LANDFILL	RI/FS
SITE 2	FIRE FIGHTING TRAINING GROUND	RI/FS
SITE 3	BATTERY AND DISP AREA	RI/FS
SITE 4	GSA AREA	RI/FS
** NASC PANAMA CITY, FL (NAVY)		
SITE 1	ORIG BURN SITE	RI/FS
SITE 2	BURN AND LNDFL AREA	RI/FS
SITE 3	OLD FIRE TRAINING AREA	RI/FS
SITE 4	UNDERGROUND OIL CONTAINER AREA	RI/FS

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY B *

Site Name	Site #	Description	Project
SITE	5	PAINT EQUIP. CLEANING AREA	RVFS
SITE	6	BURN DISPOSAL AREA	RVFS
SITE	8	SOLVENT DISP BEHIND B40	RVFS
** NETC NEWPORT, RI (NAVY)			
SITE	1	MCALLISTER PT LANDFILL	RVRA
SITE	2	MELLVILLE NORTH LANDFILL	RVRA
SITE	7	TANK FARM 1	RVFS
SITE	12	TANK FARM 4	RVFS
SITE	13	TANK FARM 5	RA
SITE	14	DISPOSAL AREA	RVFS
** NIROP BRISTOL, TN (NAVY)			
SITE	1	RIDGE DISPOSAL AREA	RVFS
SITE	2	HOLLOW DISPOSAL AREA	RVFS
SITE	3	SLUDGE LAGOONS	RVFS
SITE	4	PLATING WASTE DISPOSAL PIT	RVFS
SITE	6	STORM SEWER OUTFALL	RVFS
** NIROP CUMBERLAND, MD (NAVY)			
SITE	1	NORTHERN RIVERSIDE WASTE DISPOSAL SITE	RVFS
SITE	2	PREVIOUS BURNING GROUND	RVFS
SITE	3	PREVIOUS GROUND BURNING	RVFS
SITE	4	DEVELOPING SOLUTIONS DISPOSAL AREA	RVFS
SITE	5	INERT LANDFILL (NO ORDNANCE)	RVFS
SITE	6	SENSITIVITY TEST AREA SURFACE WATER	RVFS
** NIROP MINNEAPOLIS, MN (NAVY)			
SITE	1	WASTE DISPOSAL TRENCHES	RVFS
SITE	2	WASTE DISPOSAL PITS	RVFS
SITE	3	AREA BENEATH THE NIROP BLDG	RVFS
** NCS INMAN HEAD, MD (NAVY)			
SITE	5	BLDG 731 X-RAY COOLING WATER	RVFS
SITE	8	MERCURY DEPOSITS-GLAZZI PLANT	RVRA
SITE	12	TOWN GUT	RVFS
** NS MAYPORT, FL (NAVY)			
SITE	1	LANDFILL A	RVFS
SITE	2	LANDFILL B	RVFS
SITE	8	WASTE OIL PIT	RVFS
SITE	9	FUEL SPILL AREA	RVFS
SITE	14	MERC/OILY WASTE SPILL	RVFS
** NS ROOSEVELT ROADS, PR (NAVY)			
SITE	1	QUEBRADA DISP SITE	RVFS
SITE	7	LANDFILL	RVFS
SITE	9	PCB DISPOSAL DRY COCK AREA	RVFS
SITE	10	BLDG 25	RVFS
SITE	11	BLDG 145	RVFS
SITE	12	TWO WAY RD FUEL FARM	RVFS
SITE	13	TANKS 210 TO 217	RVFS
SITE	14	EMSEN MONDA SHORELINE MAG	RVFS
SITE	15	SUBSTATION 2	RVFS

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY B *

Site Name	Description	Project
SITE 16	OLD POWER PLANK, BLDG 38	RI/FS
** NSB BANGOR, WA (NAVY)		
SITE	MANCHESTER PCB CONT.	RI/FS
SITE	MANCHESTER LEAD CONT.	RI/FS
** NSB NEW LONDON, CT (NAVY)		
SITE	OBDANE	RI/FS
SITE 2	AREA A LNOFL	RI/FS
SITE 3	OVER-BANK DISPOSAL AREA	RI/FS
SITE 6	DPDO AREA	RI/FS
** NSB SAN DIEGO, CA (NAVY)		
SITE 9	NOSC BLDG A34 PLATING WASTE	RI/FS
** NSC CHEATHAM ANX WILLIAMSBURG, VA (NAVY)		
SITE 9	TRANSFORMER STOR AREA	RI/FS
SITE 11	BONE YD	RI/FS
SITE 13	SLUDGE FARM	RI/FS
SITE 15	TANK BOTT.	RI/FS
SITE 19	TANK BOTT.	RI/FS
SITE 20	TANK BOTT.	RI/FS
SITE 21	TANK BOTT.	RI/FS
SITE 26	TANK BOTT.	RI/FS
SITE 27	FUEL PIT AT B21	RI/FS
SITE 31	ABANDON NSFO TANKS	RI/FS
** NSC NORFOLK, VA (NAVY)		
SITE	AVGAS ON GROUND NEAR TANK 275	RI/FS
SITE 5	UNDERGROUND PIPE SPILL AREA	RI/FS
** NSGA SEBAMA SECA, PA (NAVY)		
SITE 6	FORMER PEST CONTROL	RI/FS
SITE 7	LEACHATE POND AREA	RI/FS
** NSWC DANLREN, VA (NAVY)		
SITE 5	1400 AREA LANDFILL	RI/FS
SITE 9	DISPOSAL/BURN AREA	RI/FS
SITE 10	MERC CONT	RI/FS
SITE 12	CHEM BURN PIT	RI/FS
SITE 19	TRANSFORMER DRAINING	RI/RA
SITE 25	PESTICIDE RINSING	RI/RA
** NSWC WMT' OAK, MD (NAVY)		
SITE 2	APPLE ORCHARD LNOFL	RI/FS
SITE 4	CHEM BURIAL SITE	RI/FS
SITE 7	ORDNANCE BURN AREA	RI/FS
SITE 8	ABANDON CHEM DISP	RI/FS
SITE 9	IND WW DISP FROM AREA 300	RI/FS
SITE 11	IND WW DISP FROM AREA 100	RI/FS
** NSY CHARLESTON, SC (NAVY)		
SITE 1	BASE LANDFILL	RI/FS
SITE 2	CHEM DISPOSAL AREA	RI/FS

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY B *

Site Name	Description	Project
SITE 3	OIL SLUDGE PITS	RVFS
SITE 4	POL TRANSFER PT	RVRA
SITE 5	FORMER FIRE FIGHTING TRAINING PIT	RVRA
SITE 6	PCB STORAGE AREA	RVRA
SITE 7	FORMER PESTICIDE MIXING AREA	RVFS
SITE 9	NSC OLD POL STORAGE AREA	RVRA
** NSY HUNTERS POINT, CA (NAVY)		
SITE 1	OIL RECLAMATION PONDS	RVFS
SITE 3	IND. LNDFL	RVFS
SITE 5	SCRAP YD	RVFS
SITE 7	BLDG 521 POWER PLANT	RVRA
SITE 8	PICKLING AND PLATE YD	RVFS
SITE 9	BAY FILL	RA
SITE 11	BATTERY AND PLATING SHOP	RVFS
** NSY MARE ISLAND, CA (NAVY)		
SITE -	LEAD OXIDE AREAS	RVFS
SITE 1	LANDFILL	RVFS
SITE 2	OIL SUMPS	RVRA
SITE 4	BERTHS 4 AND 5	RVRA
SITE 5	900 AREA	RVRA
SITE 6	BLDG 505	RA
SITE 7	BLDG 629 BATTERY STORAGE	RA
SITE 12	CONCORD ANNEX	RVRA
SITE 13	MARE ISLAND STRAIT	RA
SITE 14	SLUDGE PONDS	RVRA
** NSY PEARL HARBOR, HI (NAVY)		
SITE -	PCB EXPLOSION CONTAM.	RA
SITE 4	PEARL CITY PENINSULA LANDFILL	RVFS
SITE 7	TRANSFORMER STATION D-4	RVFS
SITE 22	OIL WASTE DISPOSAL PIT	RVFS
** NSY PHILADELPHIA, PA (NAVY)		
SITE -	FUEL FARM	RVFS
SITE 2	BLASTING GRIT AND DRUM DISP AREA	RVFS
SITE 4	CYLINDER DISP AREA	RVRA
** NSY PORTSMOUTH, NH (NAVY)		
SITE 1	JAMAICA ISLAND LNDFL	RVFS
** NTC GREAT LAKES, IL (NAVY)		
SITE 7	RTC SILK SCREENING SHOP	RVFS
SITE 8	EXCHANGE SERVICE STATION	RVFS
SITE 12	HARBOR DREDGE SPOIL AREA	RVFS
** NTC ORLANDO, FL (NAVY)		
SITE 1	NORTH FIELD LNDFL	RVFS
SITE 3	MCCOY LNDFL	RVFS
SITE 6	DPDO MCCOY ANNEX	RVFS
SITE 8	NTC PESTICIDE BLDG	RVFS
SITE 9	LAKE BALDWIN	RVFS

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY B *

Site Name	Description	Project
** NTC SAN DIEGO, CA (NAVY)		
SITE 1	REFUSE DISP.	RVFS
SITE 3	EXCHANGE GAS STATION	RVFS
SITE 4	OLD MTR POOL AND BLDG 3 UNDRGRND TANK	RVFS
** NWC CHINA LAKE, CA (NAVY)		
SITE	MINIDECK	RVFS
SITE	ARMITAGE FIELD	RVFS
SITE 29	G1 EAST DISP. AREA	RVFS
** NWRP DALLAS, TX (NAVY)		
SITE 1	W. DRAINAGE LAGOON	RVFS
SITE 2	E. DRAINAGE LAGOON	RVFS
SITE 7	W. OIL BURNER & DRUM AREA	RVFS
SITE 8	IND SLUDGE DRUM STOR.	RVFS
SITE 10	WASTE POL SPILL	RVFS
** NWRP MCGREGOR, TX (NAVY)		
SITE 2	AREA F-WEST SETTLING PONDS	RVFS
SITE 3	AREA F-STOCK POND	RVFS
SITE 5	AREA G-PEST. DUMP	RVFS
SITE 6	AREA L-ASBESTOS PILE	RVFS
SITE 7	AREA L-TNT WASHOUT LAGOONS	RVFS
SITE 9	AREA M-NORTH POND	RVFS
SITE 12	AREA-M TNT WASHOUT PITS	RVFS
** NWS CHARLESTON, SC (NAVY)		
SITE	S. ANNEX MUNITIONS DISPOSAL	RVFS
SITE	PCP DIP TANK AT BLDG 88	RVFS
SITE 1	SOUTH SIDE ORDNANCE DISPOSAL	RA
SITE 2	SOUTH SIDE LNOFL	RVRA
SITE 5	NORTH SIDE LNOFL	RVRA
SITE 8	NORTH SIDE BURN AREA	RVRA
SITE 9	OLD SOUTH SIDE PESTICIDE RINSE AREA	RVRA
SITE 12	S. ANNEX WASTE DISPOSAL AREA	RVRA
** NWS CONCORD, CA (NAVY)		
SITE 1	TIDAL AREA LANDFILL	RVFS
SITE 2	R AREA DISPOSAL SITE	RVFS
SITE 3	KELN SITE	RVFS
SITE 4	ALLIED SITE A	RVFS
SITE 5	ALLIED SITE B	RVFS
SITE 6	COKE PILE SITE	RVFS
SITE 9	FROD AND TAYLOR RD DISPOSAL	RVFS
SITE 11	WOOD HOGGER	RVFS
SITE 13	BURNING AREA	RVFS
SITE 14	KENNER BLVD WELLS	RVFS
SITE 16	BLACK PIT AT RED ROCK	RVFS
SITE 25	K-2 AREA	RVFS
SITE 26	G-1 AREA	RVFS
** NWS SEAL BEACH, CA (NAVY)		
SITE 1	WW SETTLING POND	RVFS
SITE 2	OIL ON ROADS	RVFS

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY B *

Site-Name	Description	Project
SITE 2	EVAP. POND	RUFS
SITE 6	EXPLOSIVES BURNING GROUND	RUFS
SITE 7	STATION LANDFILL	RUFS
SITE 8	BATTERY SHOP DRAINAGE	RUFS
SITE 22	OIL ISLAND	RUFS
SITE 24	BLDG 437 QUENCH WATER DISPOSAL	RUFS
** NWS YORKTOWN, VA (NAVY)		
SITE 1	DUDLEY RD LANDFILL	RUFS
SITE 2	TURKEY RD LANDFILL	RUFS
SITE 3	GRP 16 MAG LANDFILL	RUFS
SITE 4	BURNING PAD RESIDUE LNDFL	RUFS
SITE 5	SURPLUS TRANSFORMER STORAGE	RUFS
SITE 6	EXPLOSIVES CONT. WW IMPOUNDMENT	RUFS
SITE 7	PLANT 3 EXPL. CONT. WW	RUFS
SITE 9	EXPL. CONT. WW	RUFS
SITE 12	BARRACKS ROAD LANDFILL	RUFS
SITE 16	WEST RD LNDFL	RUFS
SITE 17	HOLM RD LNDFL	RUFS
SITE 18	BLDG 476 DISCHARGE	RUFS
** NWSC CRANE, IN (NAVY)		
SITE 1	BATTERY SHOP	RUFS
SITE 3	BURNING PIT	RUFS
SITE 9	DEMOLITION AREA	RUFS
SITE 10	ORDNANCE BURNING GROUNDS	RUFS
SITE 11	CHEM. BURIAL GROUNDS	RUFS
SITE 12	DYE BURIAL GROUNDS	RUFS
SITE 13	LOAD AND FILL AREA	RUFS
SITE 16	CAST HIGH EXPLOSIVES FILL	RUFS
SITE 17	LOAD AND FILL POND	RUFS
** PMTC POINT MUGU, CA (NAVY)		
SITE 1	LAGOON LANDFILL	RUFS
SITE 2	OLD SHOPS AREA	RUFS
SITE 3	FUEL FARM	RUFS
SITE 4	PUBLIC WORKS STOR YARD	RUFS
SITE 5	OLD "B AREA" SHOPS	RUFS
SITE 6	BLDG 311 YARD	RUFS
SITE 7	ELECTRIC SUBSTATION 660	RUFS
SITE 9	MAIN BASE FIRE SCHOOL	RUFS
SITE 11	LAGOON AND DRAINAGE DITCHES	RUFS
** PWC GUAM, GU (NAVY)		
SITE 16	PCB TRANSFORMER FILTER AREA	RU/RA
** PWC NORFOLK, VA (NAVY)		
SITE 4	P-71 TRANSFORMER STORAGE AREA	RA
** SPOC MECHANICSBURG, PA (NAVY)		
SITE 3	BURN AREA	RUFS
SITE 7	BLDG 403/404 SOLVENT DISP	RUFS

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY B *

Site Name	Description	Project:
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.....		
.....		
** AFP NO.3, TULSA, OK (AF)		
SITE A	H.W. WASTE STORAGE	RI/FS
SITE B	H.W. STOR. AREA	RI/FS
SITE C	H.W. STORAGE	RI/FS
SITE FT 01	FDTA	RI/FS
SITE LF 01	HARDFILL AREAS	RI/FS
SITE RW 01	LOW LEVEL RADIOACTIVE DISP. AREA	RI/FS
** AFP NO.36, EVANDALE, OH (AF)		
SITE LU 01	UNDERGROUND FUEL LEAK NW OF BLDG B	RA/RD
SITE SS 01	FUEL SPILL	RI/FS
** AFP NO.38, NY (AF)		
SITE 06	WASTE SITE 1	RI/FS
SITE 07	WASTE SITE 2	RI/FS
SITE 08	WASTE SITE 3	RI/FS
SITE 09	WASTE SITE 5	RI/FS
** AFP NO.42, PALMDALE, CA (AF)		
SITE 2-7	ENGINE RUN UP AREA	RI/FS
SITE 5-1	ENGINE RUN UP AEA	RI/FS
SITE 7-1	VEHICLE WASHRACK AND LUST	RI/FS
SITE 7-2	FDTA (ORIGINAL)	RI/FS
SITE C-1	FDTA (ABANDON)	RI/FS
** AFP NO.71, CORNING, UT (AF)		
SITE OT 02	N DRAINAGE DITCH	RI/FS
** AFP NO.85, COLUMBUS, OH (AF)		
SITE 03	PCB SPILL SITE	RI/FS
SITE 04	FDTA	RI/FS
SITE 05	MASONS RUN OIL/FUEL SPILL	RI/FS
SITE 08	JAMES ROAD HAZ WASTE STOR PAD	RI/FS
** ALTUS AFB, OK (AF)		
SITE LF 1	LF 1 INVESTIGATION	RI
SITE LF 2	LF 2 INVESTIGATION	RI
SITE LF 3	LF 3 INVESTIGATION	RI
SITE FT 01	FTA 3	RI
SITE FT 02	FPA 1	RI
SITE FT 03	FTA 2	RI
SITE FT 04	FTA 4	RI
SITE WP 01	INDUSTRIAL WASTE LAGOONAGE WASHRACK)	RI/RD
SITE WP 02	AIRCRAFT WASHRACK POND	RI
** ANDREWS AFB, MD (AF)		
SITE 02	SP 4 FUEL OIL SPILL	RI
SITE SP 2	LEAK AREA PD 680	RI
SITE SP 6	BRANDYWINE HOUSING SPILL	RI

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY B *

Site Name	Description	Project
SITE FT 01	FPA 1	RI
SITE FT 02	FPA 2	RI
SITE FT 03	FT-4, FPTA NO 4	RI
SITE JP 04	SP-3, JP-4 SPILL	RI
SITE LF 01	D-1, LANDFILL 1	RI
SITE LF 02	D-3, LANDFILL 3	RI
SITE LF 03	D-4, LANDFILL 4	RI
SITE LU 01	SP-8, MOGAS LEAK	RI
SITE SP 05	SP-5, EAST SIDE GAS STATION	RI
SITE WP 01	WAP-1, BRANDYWINE RECEIVER AREA	RI
** BARKSDALE AFB, LA (AF)		
SITE FT 01	FPTA 1	RI/RO
** BEALE AFB, CA (AF)		
SITE 02	PHOTO WWTP	RI
SITE 03	PHOTO WASTE INJ. WELL	RI
SITE 04	FPTA 1&2	RI/PA
SITE 04	FPTA NO. 1 & 2	RA
SITE 05	BATTERY SHOP DRY WELL	RI
SITE 14	LANDFILL 1	RI
** BELLOWS AFS, HI (AF)		
SITE LF 01	LANDFILL	RI
** BERGSTROM AFB, TX (AF)		
SITE 23	FTA	RA/RO
** BLYTHEVILLE AFB, AR (AF)		
SITE 02	SPILL 2	RI
SITE 03	SPILL 3	RI
SITE FT 01	FIRE TRAINING AREA	RI
SITE LF 02	LANDFILL 2	RI
SITE LF 04	LANDFILL 4	RI
SITE LU 01	UNDERGROUND WASTE OIL TANK	RI
** BOLLING AFB, DC (AF)		
SITE 02	HEATING PLANT OIL LEAK	RI
SITE LF 01	LANDFILL 1	RI
** BROOKS AFB, TX (AF)		
SITE LF 05	LANDFILL 5	RI
SITE LF 06	LANDFILL 6	RI
SITE WP 01	LIQUID FUEL SLUDGE DISPOSAL	RI
** BURLINGTON ANG, VT (AF)		
SITE 01	FOTA AND OLD LANDFL	RI/FS
** CAMPION AFB, AK (AF)		
SITE OS 02	WASTE ACCUMULATION 2	RI
SITE LF 01	LANDFILL 1	RI
SITE SS 01	SPILL / LEAK 1	RI

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY B *

Site Name	Description	Project
** CANNON AFB, NM (AF)		
SITE 01	LANDFILL 1	RI
SITE 11	ENGINE TEST CELL	RI
SITE 15	AGE DRAINAGE DITCH	RI
** CAPE LISBURNE AFS, AK (AF)		
SITE LF 01	LANDFILL 1	RI
SITE SS 01	SPILL 1	RI
SITE SS 02	SPILL 2	RI
SITE WP 02	DUMP 2	RI
** CAPE NEWENHAM AFS, AK (AF)		
SITE DS 01	WASTE ACCUMULATION 3	RI
SITE LF 01	LANDFILL 1	RI
SITE LF 02	LANDFILL 2	RI
SITE OT 01	ROAD OILING	RI
SITE WP 01	DUMP AREA	RI
** CAPE ROMANZOF AFS, AK (AF)		
SITE DS 01	WASTE ACCUMULATION 2	RI
SITE LF 01	LANDFILL 1	RI
SITE LF 02	LANDFILL 2	RI
SITE LF 03	LANDFILL 3	RI
SITE OT 01	ROAD OILING	RI
SITE SS 01	WASTE ACCUMULATION 1	RI
SITE SS 02	WASTE ACCUMULATION 3	RI
SITE SS 03	SPILL 3	RI
SITE SS 04	SPILL 4	RI
SITE WP 01	DUMP AREAS	RI
** CARSWELL AFB, TX (AF)		
SITE 01	LANDFILL 1	RI
SITE 04	LANDFILL 4	RI
SITE 05	LANDFILL 5	RI
SITE 10	WASTE BURIAL AREA	RI
SITE 12	FOTA 2	RI/RD
SITE 13	FLIGHTLINE DRAINAGE DITCH	RI/RA
SITE 15	ENTOMOLOGY DRY WELL	RI
SITE 16	UNNAMED STREAM	RI
SITE 17	POL TANK FARM	RI/RD
SITE OT 01	WEAPONS STORAGE AREA, INSPECTION SHOP	RI
** CASTLE AFB, CA (AF)		
SITE FT 01	FPTA 1	RD
SITE SS 01	FUEL SPILL 1	RD
SITE SS 02	FUEL SPILL 4	RD
** CHARLESTON AFB, SC (AF)		
SITE 01	BURIED AREA	RI
SITE 02	CONTAMINATED LAGOON	RI/RA
SITE OS 01	MZ WASTE STORAGE AREA 1 ZONE 2	RI
SITE OS 02	MZ WASTE STORAGE ZONE 2	RI
SITE OS 03	MATERIALS STOR. AREA	RI

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY B *

Site Name	Description	Project
SITE DS 04	SALV MATERIAL STORAGE AREA	RI
SITE FT 02	FIRE DEMO AREA 2	RI
SITE FT 03	FPTA 1	RI/RA
SITE FT 04	FPTA 2	RI
SITE FT 05	FPTA 3	RI/RA
SITE FT 06	FPTA NORTH AUX. FIELD	RI
SITE LF 01	LANDFILL 1	RI/RA
SITE LF 02	LANDFILL 2	RI/RA
SITE LF 03	LANDFILL 3	RI/RA
SITE LF 04	LANDFILL 4	RI
SITE LU 01	GAS STATION LEAK	RI
SITE OT 01	ENTOMOLOGY (PRESENT)	RI
SITE OT 02	HARDFILL 1	RI
SITE OT 03	HARDFILL 3, ZONE 1	RI
SITE OT 04	ENTOMOLOGY SHOP (PAST)	RI
SITE SS 01	DEFENSE FUEL SUPPORT TANK FARM	RI
SITE SS 02	NORTH PCB SPILL	RI
SITE SS 03	SOUTH PCB SPILL	RI
SITE WP 01	DUMP SITE	RI
** COLUMBUS AFB, MS (AF)		
SITE LU 01	LU01-10	RI/FS
** DOBBINS AFB, GA (AF)		
SITE 01	LANDFILL	FS
SITE 02	FDTA, PAST	FS
SITE 04	BIG LAKE	FS
** DOVER AFB, DE (AF)		
SITE 01	LANDFILL 5	RI
SITE SP 03	SPILL SITE	RI
** DYESS AFB, TX (AF)		
SITE FT 01	FIRE TRAINING AREA 1	RI
SITE LF 01	LANDFILL/POL SLUDGE DISP. AREA 2	RI
SITE OT 01	EVAPORATION PIT, WASTE TANK	RI
SITE OT 02	N. DIVERSION DITCH 2	RI
** EDWARDS AFB, CA (AF)		
SITE 01	DEFERRED FY86 FTA CLEAN-UP	RA
** EIELSON AFB, AK (AF)		
SITE 02	OLD BASE LNOFL	RI
SITE 03	CURRENT BASE LNOFL	RI
SITE 08	FDTA (PAST)	RI
SITE 09	FDTA (PRESENT)	RI
SITE 10	E-2 POL STOR.	RI
SITE 11	FUEL SATURATED AREA	RI
SITE 13	E-4 DIESEL FUEL SPILL	RI
SITE 15	FUEL LINE	RI
SITE 16	MOGAS FUEL SPILL	RI
SITE 17	CANOL PIPELINE SPILL	RI
SITE 18	OLD BOILER	RI
SITE 19	JP-4 SPILL	RI

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY B *

Site Name	Description	Project
SITE 20	REFUELING LOOP	RI
SITE 32	SEWAGE TREATMENT SPILL POND	RI
SITE 35	ASPHALT MIXING AREA	RI
SITE 36	DRUM STORAGE SITE	RI
SITE 37	DRUM STORAGE	RI
SITE 38	WASTE POL PIT	RI
SITE 39	ASPHALT LAKE	RI
SITE 41	AUTO HOBBY SHOP	RI
SITE 01	ORIG. BASE LNDFL	RI
** ELLINGTON ANG, TX (AF)		
SITE SS 01	SPILL NEAR BLDG 1287	RI
** ELLSWORTH AFB, SD (AF)		
SITE SP-7	PUMP HOUSE NO. 6	RI
SITE SP-9	AUTO SHOP HEATING FUEL	RI
SITE FT 01	FIRE TRAINING AREA	RI
SITE LF 01	LANDFILL 1	RI
SITE LF 03	LANDFILL 3	RI
** ELMENDORF AFB, AK (AF)		
SITE 14	MOGAS SPILL SITE	RI
SITE D-17	SHOP WASTE DISPOSAL	RI
SITE D-5A	SANITARY LANDFILL	RI
SITE FT-1	FIRE TRAINING AREA	RI
SITE IS-1	BLDG 42-400 FLOOR DRAINS	RI
SITE SP-2	JP-4 LINE LEAK	RI
SITE SP 5	BULK STORAGE TANK SPILL	RI
SITE SP 6	DIESEL FUEL SPILL	RI
SITE SP-7	PUMPHOUSE 3 SPILL SITE	RI
SITE SP 11	JP 4 LINE LEAK	RI
SITE SP 15	AVGAS SPILL	RI
** ENGLAND AFB, LA (AF)		
SITE D 15	POL SLUDGE WEATHERING PIT 4	RI/RO
** F.E. WARREN AFB, WY (AF)		
SITE 01	SITE 1, BLDG 400 MOGAS SPILL	RI
SITE 02	SITE 2, BLDG 810 SPILL	RI
SITE FT 01	FPYA 1	RI/RO
SITE FT 02	FPYA 2	RI
SITE LF 01	LANDFILL 2	RI
SITE LF 02	LANDFILL 3	RI
SITE LF 03	LANDFILL 4	RI
SITE LF 04	LANDFILL 5	RI
SITE LF 05	LANDFILL 6	RI
SITE OT 01	ACID DRY WELL WEST OF BLDG 826	RI/RO
** FAIRCHILD AFB, WA (AF)		
SITE FT 01	FIRE TRAINING AREA	RO
SITE SS 03	PS 2 REFUELING PITS 18 & 19	RO
SITE SS 04	PS 3 AREA C PUMPHOUSE FUELING	RO
SITE SS 05	PS 4 PUMPHOUSE B	RO

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY *

Site Name	Description	Project
SITE SW 01	BASE LANDFILL NW OF T/W8	RD
SITE SW 08	BASE LANDFILL AT CRAIG RD	RD
SITE WP 01	08-1 O/LAA 25 ADS, MICA PEAK JSS	RD
SITE WP 02	WW-1 INDUSTRIAL WASTE LAGOON	RD
** FORBES FIELD, KS (AF)		
SITE 03	MULTISITES	RVFS
SITE 04	REFUELING HYDRANT 1	RI
SITE 05	REFUELING HYDRANT 2	RVFS
** FORT YUKON AFS, AK (AF)		
SITE DS 01	WASTE ACCUMULATION	RI
SITE LF 01	LANDFILL 1	RI
SITE OT 01	OIL DISCHARGE	RI
SITE OT 02	ROAD OILING	RI
SITE OT 03	WHITE ALICE SITE	RI
** GALENA AIRPORT, AK (AF)		
SITE FT 01	FPTA	RI
SITE SS 01	SPILL 1	RI
SITE SS 02	SPILL 2	RI
SITE SS 03	SPILL 3	RI
SITE SS 04	POL TANK FARM	RI
** GEORGE AFB, CA (AF)		
SITE S 20	IND. OUTFALL DITCH 6	RA/RD
** GRISSOM AFB, IN (AF)		
SITE LF 03	LANDFILL 3	RI
** HANSCOM AFB, MA (AF)		
SITE FT 01	FIRE TRAINING 1	RD
** HICKAM AFB, HI (AF)		
SITE 05	TRI SERVICES LANDFILL	RV/RD
SITE 07	HICKAM SITE 7	RV/RD
SITE 13	HICKAM SITE 13	RV/RD
SITE 14	HICKAM SITE 14	RV/RD
SITE 15	HICKAM SITE 15	RV/RD
SITE 19	HICKAM SITE 19	RV/RD
** HOLLAMAN AFB, NM (AF)		
SITE 17	BX SERVICE STATION FUEL LEAK	RV/RD
** HOMESTEAD AFB, FL (AF)		
SITE SP 4	LEAK AT POL STORAGE TANK FARM	RI
SITE SP 5	PUMP STATION 9 ON FLIGHT LINE	RA
SITE SP 6	NOGAS LEAK BX STATION	RI
** INDIAN MOUNTAIN RESEARCH SITE, AK (AF)		
SITE 9	SPILES 1, 3, AND 8	RI
SITE DS 01	DUMP AREAS	RI
SITE OS 02	WASTE ACCUMULATION AREA 1	RI
SITE OS 03	WASTE ACCUMULATION AREA 5	RI

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY B *

Site Name	Description	Project
SITE LF 01	LANDFILL 1	RI
SITE LF 02	LANDFILL 2	RI
SITE LF 03	WASTE ACCUMULATION AREA 4	RI
SITE OT 01	ROAD OILING	RI
SITE SS 02	WASTE ACCUMULATION AREA 6	RI
SITE SS 01	WASTE ACCUMULATION AREA 3	RI
** K.L.SAWYER, MI (AF)		
SITE DP-2	HOSPITAL DRAINAGE POND	RI
SITE DP-3	NORTHSIDE SHOP DRAINAGE PIT	RI
SITE FT 01	FPTA	RI
SITE LF 01	LANDFILL 1	RI
SITE LF 02	LANDFILL 2	RI
SITE OT 01	WALLIS TERM. ANNNX	RI
** KEESLER AFB, MS (AF)		
SITE FT 01	FPTA AND LANDFILL 3	RI
SITE LF 02	LANDFILL 2	RI
SITE OT 01	TRANSFORMER STORAGE	RI
SITE WP 01	ETCHING SHOP DRAINAGE PIT	RI
SITE WP 02	PESTICIDES RINSE PIT	RI
SITE WP 03	SLUDGE BURIAL SITE AT LF 1	RI
SITE WP 04	TFL SLUDGE BURIAL AT ANNEX 1	RI
** KIRTLAND AFB, NM (AF)		
SITE LF 01	LANDFILL 1	RA
SITE LF 02	LANDFILL 2 RIP/RAP	FS/RO
** LITTLE ROCK AFB, AR (AF)		
SITE 01	BULK FUEL TANK FARM	RI
SITE 02	FLIGHT-LINE FUEL LEAKS	RI
SITE 03	LANDFILL 1	RI
SITE 04	LANDFILL 2	RI
SITE 05	LANDFILL 3	RI
SITE 06	LANDFILL 4	RI
SITE 07	LANDFILL 5	RI
SITE 08	LANDFILL 6	RI
SITE 09	LANDFILL 7	RI
SITE 10	POL FUEL SPILL	RI
SITE FT 01	FPTA	RI
SITE WP 01	DISCHARGE PIT	RI
SITE WP 02	DRMS STORAGE	RI
** LORING AFB, ME (AF)		
SITE 01	LANDFILL 1	RI
SITE 03	LANDFILL 5	RI
SITE 04	RECIEVER SITE	RI
SITE 05	QUARRY SITE	RU/RO
SITE 06	FUEL TANK FARM	RI
SITE 07	FOTA	RI
SITE 08	RR MAIN SITE	RI
SITE 10	FLIGHTLINE DRAINAGE DITCH, ZONE 2	RU/FS
SITE 11	NOSE DOCK AREA	RI
SITE 12	FLIGHTLINE AREA 2	RI

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY B *

Site Name	Description	Project
SITE 13	BX GAS STATION	RI
SITE 17	UNDRGRND TRANSFORMER SITE	RI
** LOS ANGELES AFS, CA (AF)		
SITE SS 01	FUEL SPILL SITE	RA/RO
** MARCH AFB, CA (AF)		
SITE 03	LANDFILL 3	RI
SITE 04	TCE CONTAMINATION	RI
SITE 05	TCE CONTAMINATION	RI
SITE 06	LANDFILL 6	RI
SITE 09	FPTA 2	RI
SITE 18	AIRCRAFT ISO. AREA	RI
SITE 21	BULK FUEL STOR.	RI
SITE 22	WASTE OIL PIT	RI
SITE 24	MAIN OIL/WATER SEPERATION	RI
SITE 25	FLIGHTLINE DRAINAGE	RI
SITE 26	FLIGHT LINE SHOP	RI
SITE 27	CE STOR YD	RI
** MAXWELL AFB, AL (AF)		
SITE FT 01	FPTA 1	RI/FS
SITE FT 02	FPTA 2	RI/FS
SITE WP 01	ELECTROPLATING WASTE DISPOSAL	RI/FS
** MCCORD AFB, WA (AF)		
	NON-SITE LTM	RA
SITE 04	RE EVALUATE GW	RI
SITE A 01	BURIAL PIT	RA
SITE A 02	AMERICAN LAKE GARDENS LANDFILL	RA
SITE A 34	JP 4 SPILL SITES 34 AREA A	RA
SITE A 46	JP 4 SPILL SITES 46 AREA A	RA
SITE C 37	SITE C37 POL SPILL/DISPOSAL	RA
SITE C 42	C42 FUEL SPILL	RA
SITE C 57	LEACH PIT C 57	RA
SITE C 60	LEACH PIT C 60	RA
SITE C 61	LEACH PIT C 61	RA
SITE C 62	C 62 LEACH AREA	RA
SITE E 10	E10 AERATION OF SOIL	RA
SITE E 49	E49 AERATION OF SOIL	RA
SITE E 50	AREA E SITE 50 FUEL SPILL	RA
SITE E 51	E51 AERATION OF SOIL	RA
SITE LF 01	SAMPLE DRUM REMOVAL	RA
** MCCONNELL AFB, KS (AF)		
SITE 01	SPILL 1	RI
SITE FT 01	FIRE TRAINING PIT 2	RI
SITE FT 02	FIRE TRAINING PIT 3	RI
SITE FT 03	FIRE TRAINING PITS 1&5	RI
SITE LF 01	MO DISPOSAL SITE	RI
SITE LF 02	LANDFILL 1	RI
SITE LF 03	LANDFILL 2	RI

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY B *

Site Name	Description	Project
** MINN ST. PAUL IAP, MN (AF)		
SITE 05	POL SPILL AREA	FS
SITE 07	FUEL SPILL AREA	RD
SITE 08	HW STORAGE AREA	FS
** MURPHY DOME AFS, AK (AF)		
SITE DS 01	WASTE ACCUMULATION AREA 2	RI
SITE DS 02	WASTE ACCUMULATION AREA 3	RI
SITE LF 01	LANDFILL 1	RI
SITE LF 02	LANDFILL 2	RI
SITE OT 01	ROAD OILING	RI
SITE OT 02	WHITE ALICE	RI
SITE SS 01	WASTE ACCUMULATION AREA 1	RI
** MYRTLE BEACH AFB, SC (AF)		
SITE SS 01	FLIGHTLINE CONTAMINATED AREA	RD
** NEWARK AFS, OH (AF)		
SITE AT-1	ACID STORAGE TANK	RI
SITE SP 1	BATTERY ACID AND SOLVENT SPILL	RI
SITE SP-3	FREON SPILL, SW OF BLDG 4	RI
SITE SP 4	FREON SPILL, VSTRS AND CONTRACTORS	RI
** NIAGARA FALLS IAP, NY (AF)		
SITE DS 02	BLDG 202 DRUM STORAGE	RI
SITE US 04	HW DRUM STORAGE	RI
SITE FT 03	FPTA 3	RI
SITE LF 01	LANDFILL	RI
SITE LU 01	8X MOGAS LEAK	RI
SITE OT 01	BLDG 600 PIPELINE LEAK, JP 4	RI
SITE OT 02	POL TANK A, JP 4	RI
SITE OT 03	TANK C, JP 4 LEAK	RI
SITE SS 01	JP 4 TANK TRUCK SPILL	RI
** O'HARE AFB RESERVE, IL (AF)		
SITE 01	LANDFILL 1	FS
SITE 02	JP 4 TANK WEST POL AREA	FS
SITE 03	FIRE PROTECTION TRAINING AREA	FS
SITE 04	LANDFILL 2	FS
** OFFUTT AFB, NE (AF)		
SITE 04	SPILL SITE 4	RI
SITE DS 01	HAZARDOUS WASTE YARD	RI
SITE FT 01	FIRE TRAINING PIT 1	RI
SITE FT 02	FIRE TRAINING PIT 2	RI
SITE FT 03	FIRE TRAINING PIT 3	RI
SITE LF 01	LANDFILL 1	RE
SITE LF 02	LANDFILL 2	RI
SITE LF 03	LANDFILL 3	RI
SITE LF 04	LANDFILL 4	RI
SITE LF 05	LANDFILL 5	RI
SITE OT 01	LANDFILL 4	RI
SITE OT 02	LANDFILL 5	RI

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY B *

Site Name	Description	Project
SITE OT 03	HARDFILL 6	RI
SITE SS 01	SPILL SITE 1	RI
** PATRICK AFB, FL (AF)		
SITE LF 01	LANDFILL 1	RA
** PEASE AFB, NH (AF)		
SITE 05	LANDFILL 5	RI
SITE 12	MUNITIONS STOR. AND SOLVENT DISP. AREA	RI
SITE 13	BULK FUEL STOR.SPILL	RI
SITE 118	CONSTRUCTION RUBBLE	RI
SITE LF 01	LANDFILL 1 SITE 1	RI
** PHELPS COLLINS ANG, MI (AF)		
SITE 2	MULTISITES	RO
** PLATTSBURGH AFB, NY (AF)		
SITE D-4	LANDFILL, SOUTH OF FPTA	RI
SITE SP 1	JP-4 AND SOLVENT SPILLS APRON	RI
SITE SP-6	JP-4 SPILLS, BLDG 2542	RI
SITE SP-8	FUEL SPILLS, POL AREA	RI
SITE SP-9	SOLVENT SPILLS, MMS COMPLEX	RI
SITE LF 01	FT-1 FIRE TRAINING AREA	RI
SITE SP-10	JP-4 SPILLS, ALERT AREA	RI
** POPE AFB, NC (AF)		
SITE FT 01	FPTA-4	RI
SITE LF 01	HARDFILL 2	RI
SITE LF 02	HARDFILL 8	RI
SITE SS 01	POL BULK STORAGE	RI
SITE SS 02	TIRE SHOP WASTE	RI
SITE WP 01	POL SLUDGE DISPOSAL	RI
** RECKENBACKER ANG, OH (AF)		
SITE S-6	S-6	RI
SITE S-9	S-9	RI
SITE S-10	S-10	RI
SITE S-12	S-12	RI
SITE S-14	S-14	RI
SITE S-15	S-15	RI
SITE S-16	S-16	RI
SITE S-17	S-17	RI
** SCOTT AFB, IL (AF)		
SITE FT 01	FPTA 1	RI
SITE FT 02	FPTA 2	RI
SITE FT 03	FPTA 3	RI
SITE LF 01	LANDFILL	RI
SITE SS 01	FACILITY 1965 SPILL SITE	RI
SITE SS 02	FACILITY 8550 SPILL SITE	RI
SITE WP 01	SLUDGE LAGOON	RI

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY B *

Site Name	Description	Project
** SHEMYA AFB, AK (AF)		
SITE 01	NW WATESHED	RA
** SHEPPARD AFB, TX (AF)		
SITE WP 01	WASTE PITS	RVFS
** SMUGGLERS COVE RADIO RELAY, AK (AF)		
SITE 01	WACS	RA
** SOLDOTNA, AK (AF)		
SITE 1	WACS	RA
** SPARREVOHN AFS, AK (AF)		
SITE LF 01	LANDFILL 1	RI
SITE OT 01	ROAD OILING	RI
SITE OT 02	TRANSMITTER PAD	RI
SITE OT 03	WHITE ALICE SITE	RI
SITE SS 02	SPILL 2	RI
SITE SS 03	WASTE ACCUMULATION AREA	RI
SITE WP 01	DUMP AREAS	RI
** TATALINA AFS, AK (AF)		
SITE OS 01	DUMP AREAS	RI
SITE OS 02	WASTE ACCUMULATION AREA 1	RI
SITE OS 03	WASTE ACCUMULATION AREA 3	RI
SITE OS 04	WASTE ACCUMULATION AREA 4	RI
SITE LF 01	LANDFILL 2	RI
SITE LF 02	WASTE ACCUMULATION AREA 2	RI
SITE OT 01	ROAD OILING	RI
SITE OT 02	WHITE ALICE SITE	RI
SITE SS 01	SPILL 1, 2, 3, AND 4	RI
SITE SS 05	SPILL 5	RI
SITE SS 06	SPILL 6 AND 7	RI
SITE SS 08	SPILL 8	RI
** TIM CITY AFS, AK (AF)		
SITE OS 01	WASTE ACCUMULATION AREA	RI
SITE LF 01	LANDFILL	RI
SITE SS 01	SPILL 1	RI
SITE SS 02	SPILL 2	RI
SITE WP 01	DUMP 1	RI
SITE WP 02	DUMP 2	RI
** TRAVIS AFB, CA (AF)		
SITE FT 01	FPYA 1	RI
SITE FT 02	FPYA 2	RI
SITE FT 03	FPYA 3	RI
SITE FT 04	FPYA 4	RI
SITE LF 01	LANDFILL 1	RI
SITE LF 02	LANDFILL 2	RI
SITE LF 03	LANDFILL 3	RI
SITE OT 01	DISPOSAL SITE 1	RI
SITE OT 02	DISPOSAL SITE 3	RI
SITE OT 03	STP SLUDGE DISPOSAL	RI

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY B *

Site Name	Description	Project
SITE SS 01	JP-4 SPILL	RI
SITE SS 02	OLD SPILLAGE	RI
SITE SS 03	SOLVENT SPILL	RI
SITE SS 04	OIL SPILL	RI
SITE WP 01	STP INACTIVE OXIDATION POND	RI
** TYNDALL AFB, FL (AF)		
SITE 06	SEWAGE PLANT LANDFILL	RA/RO
SITE 07	SPRAY FIELD LANDFILL	RA/RO
** USAF ACADEMY, CO (AF)		
SITE LF 01	LANDFILL-FARRISH	RI
SITE SS 01	JP-4 SPILL	RI
SITE WP 02	DREDGE DISPOSAL SITE-FARRISH	RI
** VANDENBERG AFB, CA (AF)		
SITE LF 03	LANDFILL 2	RO
** WAKE ISLAND AIRFIELD, TT (AF)		
SITE 1500	1500 LIQUID FUEL STORAGE	RI
SITE 1700	1700 LIQUID FUEL STORAGE	RI
SITE 1800	1800 LIQUID FUEL STORAGE	RI
SITE FT 01	AIRFIELD SITE 7	RI
SITE LF 01	AIRFIELD SITE 10	RI
SITE LU 01	AIRFIELD SITE 9	RI
SITE OT 01	AIRFIELD SITE 4	RI
SITE OT 02	AIRFIELD SITE 5	RI
SITE OT 03	AIRFIELD SITE 8	RI
SITE OT 04	AIRFIELD SITE 11	RI
SITE OT 05	AIRFIELD SITE 12	RI
SITE SS 01	AIRFIELD SITE 6	RI
SITE SS 02	AIRFIELD SITE 15	RI
** WHEELER AFB, MI (AF)		
SITE 03	CLEAN-UP	RUFS
SITE 04	CLEAN-UP	RUFS
** WHITEMAN AFB, MO (AF)		
SITE FT 01	FOTA	RI
SITE LF 05	LANDFILL 5	RI
SITE OT 01	CHLORDANE APPLICATION AREAS	RI
SITE WP 01	PESTICIDE DISPOSAL AREA	RI
SITE WT 01	SODIUM CHROMATE TREATMENT AT WTP	RI
** WILLIAMS AFB, AZ (AF)		
SITE 20	FT02.SS01	RUFS
SITE OT 02	SURFACE DRAINAGE SYSTEM SW	RA
** WILLOW GROVE AFB, PA (AF)		
SITE 04	WASHRACK AREA	RI
SITE 05	WASTE OIL STORAGE AREA, BLOC 4330	RI
SITE 07	OLD WELL HOUSE	RI
SITE OT 01	HEATING PLANT	RI

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

*** PRIORITY B ***

Site Name	Description	Project
** WURTSMITH AFB, MI (AF) SITE SP-3	SP-3 FUEL SPILL AT POL STOR. AREA	RA

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY C *

Site Name	Priority	Description	Project
** BADGER AAP, MI (ARMY)			
SITE	3	NC LAGOONS AND DRAINAGE DITCH	RI/F5
SITE	4	ROCKET AREA	RA
SITE	5	OLD ACID COMPLEX	
SITE	16	COMPOSTING DEMO	RA
** BLOSSOM POINT FIELD TEST ACTIVITY, MD (ARMY)			
SITE	1	LANDFILL	RI
SITE	3	LANDFILL	RI
SITE	4	LANDFILL	F ₁
SITE	5	LANDFILL	RI
SITE	6	LANDFILL	RI
SITE	7	LANDFILL	RI
SITE	8	LANDFILL	RI
** CORPUS CHRISTI AD, TX (ARMY)			
SITE	1	HAZARDOUS WASTE DUMP SITE	RA
** DETROIT ARSENAL, MI (ARMY)			
SITE	2	BOUNDARY POL SITE	R/RA
** DUGWAY PROVING GROUND, UT (ARMY)			
SITE	1	OPEN PITS	RA
SITE	2	DUMP SITE	
** FORT A.P.HULL, VA (ARMY)			
SITE	3	DIOXIN CLEANUP SITE	RA
SITE	5	MO POL AREA	R/F5
SITE	6	DIRT BRIDGE WAREHOUSE AREA	R/F5
** FORT BENNING, GA (ARMY)			
SITE	1	CLOSED LANDFILL 1	R/F5
SITE	2	CLOSED LANDFILL 2	R/F5
SITE	3	CLOSED LANDFILL 3	R/F5
SITE	4	CLOSED LANDFILL 4	R/F5
SITE	5	CLOSED LANDFILL 5	R/F5
SITE	6	CLOSED LANDFILL 6	R/F5
** FORT CAMPBELL, KY (ARMY)			
SITE	1	CAMPBELL AIR FIELD	R/F5
** FORT DRUM, NY (ARMY)			
SITE	1	BLOG 1595 FUEL DISPENSING SPRING AREA	R/F5
SITE	2	CLEANUP AT OLD SANITARY LANDFILL	R/RA
SITE	3	MONITORING	RI
** FORT EUSTIS, VA (ARMY)			
SITE	1	HELICOPTER MAINTENANCE AREA	R/F5
SITE	3	SEVERAL OLD LANDFILLS	R/F5
** FORT MCCLELLAN, AL (ARMY)			
SITE	4	RANGE T 24A	R/F5
SITE	5	RANGE T 38	R/F5
SITE	6	RANGE I	R/F5

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY C *

Site Name		Description	Project
SITE	7	RANGE J	RI/FS
SITE	8	RANGE L	RI/FS
SITE	9	RANGE K	RI/FS
SITE	10	FORMER LANDFILL	RI/FS
SITE	11	FORMER LANDFILL	RI/FS
SITE	12	FORMER LANDFILL	RI/FS
** FORT MEADE, MD (ARMY)			
SITE	2	OPERATING LANDFILL	RI/FS
** FORT POLK, LA (ARMY)			
SITE	1	OLD LANDFILL	RI/FS
SITE	2	OLD LANDFILL	RI/FS
SITE	3	OLD LANDFILL	RI/FS
SITE	4	OLD LANDFILL	RI/FS
SITE	5	OLD LANDFILL	RI/FS
SITE	6	OLD LANDFILL	RI/FS
SITE	7	OLD LANDFILL	RI/FS
SITE	8	OLD LANDFILL	RI/FS
SITE	9	S. FORT FIREFIGHTER PIT-N	RI/FS
SITE	10	DPOO AREA	RI/FS
** FORT WAINWRIGHT, AK (ARMY)			
SITE	2	OLD DRUM STORAGE AREA	RI/FS
SITE	3	FAMILY HOUSING AREA	RI/FS
SITE	4	COAL PILE	RI/FS
** HAWTHORNE AAP, NV (ARMY)			
SITE	1	TEST RANGE	RI/FS
SITE	3	SURFACE IMPOUNDMENT AREA 101	RI/FS
SITE	5	MUSTARD GAS DISPOSAL AREA	RI/FS
SITE	6	SURFACE IMPOUNDMENT AREA 103	RI/FS
SITE	7	TEST RANGE	RI/FS
SITE	8	OLD BOMB AREA	RI/FS
SITE	9	OB/OO AREA	RI/FS
** NOLSTON AAP, TN (ARMY)			
SITE	1	NITRATE POND 3	RI/FS
SITE	2	BURNING GROUND	RI/FS
SITE	3	B LINE POND	RI/FS
SITE	4	AREA A FLY ASH POND	RI/FS
SITE	5	TAR SITE	RI/FS
** KANSAS AAP, KS (ARMY)			
SITE	1	LAP DEMOLITION AND LANDFILL	RI/FS
** LONGHORN AAP, TX (ARMY)			
SITE	2	BURNING GROUND NO 3	RI/FS
SITE	3	UNLINED EVAPORATION POND	RA
** LOUISIANA AAP, LA (ARMY)			
SITE	3	CADMIUM WASTE POND/DWTS RETENTION POND	RA

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY C *

Site Name	Description	Project
** MATERIALS TESTING LABORATORY, MA (ARMY)		
SITE 1	BLDG 312 BE & U LABS	RI/FS
SITE 2	BLDG 43 & FNDR SHOP	RI/FS
SITE 3	ORGAN MATER LAB BLDG 39	RI/FS
SITE 4	ORGAN MATER LAB BLDG 292	RI/FS
SITE 5	ORGAN MATER LAB BLDG 97	RI/FS
SITE 6	BLDG 221	RI/FS
SITE 7	METALS & CERAM. BLDG 313	RI/FS
SITE 8	BLDG 214	RI/FS
SITE 9	BLDG 72	RI/FS
SITE 10	RADIOACTIVE STOR. BLDG 39	RI/FS
SITE 11	BLDG 243	RI/FS
SITE 12	BLDG 97	RI/FS
SITE 13	BLDG 311	RI/FS
SITE 14	I W DISCHARGE TO SEWER	RI/FS
SITE 15	BLDG 71	RI/FS
SITE 16	AREA 241 BERYLLIUM WASTES	RI/FS
SITE 17	PARDING AREA RUNOFF	RI/FS
SITE 18	BLDG 292	RI/FS
SITE 19	BLDG METAL CLEANING SITE	RI/FS
** MILITARY OCEAN TERMINAL, BAYONNE, NJ (ARMY)		
SITE 1	LANDFILL	RI/FS
SITE 3	VEHICLE MAINTANENCE AREA	RI/FS
SITE 4	UNDERGROUND STOR TANK	RI/FS
SITE 5	UNDERGROUND STOR TANKS	RI/FS
SITE 6	UNDERGROUND STOR TANKS	RI/FS
SITE 7	UNDERGROUND STOR TANKS	RI/FS
SITE 8	UNDERGROUND STOR TANKS	RI/FS
SITE 9	UNDERGROUND STOR TANKS	RI/FS
SITE 10	UNDERGROUND STOR TANKS	RI/FS
SITE 11	UNDERGROUND STOR TANKS	RI/FS
SITE 12	UNDERGROUND STOR TANKS	RI/FS
SITE 13	UNDERGROUND STOR TANKS	RI/FS
SITE 14	UNDERGROUND STOR TANKS	RI/FS
SITE 15	UNDERGROUND STORAGE TANKS	RI/FS
SITE 16	UNDERGROUND STOR TANKS	RI/FS
** McALESTER AAP, OK (ARMY)		
SITE 1	SURFACE WATER	RI/FS
** MATICK RAD COMMAND, MA (ARMY)		
SITE 1	FIRE PIT AREA	RA
** NAVAJO ADA, AZ (ARMY)		
SITE 1	AWARD WASHOUT LAGOON	RA
** NEW CUMBERLAND AD, PA (ARMY)		
SITE 1	EASTERN DISTRIBUTION CENTER	RA
SITE 3	SOLVENT TANK T 930	RA
** NEWPORT AAP, IN (ARMY)		
SITE 1	BURNING GROUND	RI/FS
SITE 2	RED WATER ASH LAGOONS (3)	RI/FS

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY C *

Site Name		Description	Project
SITE	3	GYPSUM SLUDGE BASINS	RVFS
SITE	4	RETENTION POND	RVFS
** PICATINNY ARSENAL, NJ (ARMY)			
SITE	1	GUN COTTON PIPELINE	RA
SITE	2	BLDG 24	RVFS
SITE	5	BLDG 95	RVRA
SITE	7	HAZARDOUS WASTE PILE	RA
** PINE BLUFF ARSENAL, AR (ARMY)			
SITE	1	BZ FACILITY	RVFS
** PRESIDIO OF MONTEREY, CA (ARMY)			
SITE	1	DUMP 1	RVRA
** RAVENNA AAP, OH (ARMY)			
SITE	11	INACTIVE BG AREA	RVFS
** SENECA AD, NY (ARMY)			
SITE	1	DEMOLITION GROUNDS PAD 6	RA
** SIERRA AD, CA (ARMY)			
SITE	1	HONEY LAKE	RVFS
SITE	2	DISPOSAL PIT	RVFS
SITE	3	AMMO WASHOUT LAGOON	RA
SITE	4	ABANDON DEMOLITION GROUNDS	RVFS
SITE	5	UNK(INSTALL WELLS)	RVFS
** SUNFLOWER AAP, KS (ARMY)			
SITE	1	RA CLASS YARD	RVFS
SITE	2	POND A	RVFS
SITE	3	POND B	RVFS
SITE	4	RYOTT'S POND	RVFS
SITE	5	STATIC ROCKET TEST AREA	RVFS
SITE	6	CANNON RANGE	RVFS
SITE	7	CHROMATE AREA	RVFS
SITE	8	LANDFILL	RVFS
SITE	9	OLD EXPLOSIVE BURN AREA	RVFS
SITE	10	LEAD RECOVERY AREA	RVFS
SITE	11	CONTAM WATER BURNING GROUNDS	RVFS
SITE	12	F LINE PASTE AREA, N PONDS	RVFS
SITE	13	CAPTAIN CREEK	RVFS
SITE	14	KILL CREEK	RVFS
SITE	15	SPOOL CREEK	RVFS
** TOBYHANNA AD, PA (ARMY)			
SITE	1	OLD SUBSTATION	RA
SITE	2	OIL STORAGE AREA	RA
SITE	3	BLDG 701	RA
SITE	4	BLDG 15	RA
** VOLUNTEER AAP, TN (ARMY)			
SITE	2	MONITORING, SOURCE CONTROL	RVFS

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY C *

Site Name		Description	Project
** WOODRIDGE RESEARCH FACILITY, VA (ARMY)			
SITE	2	PCB BURIAL SITE	P-RA
		
		
		
** CBC PORT HUENEME, CA (NAVY)			
SITE	12	CEC PCB SPILLS	RVFS
SITE	13	MUSE PCB SPILL	RVFS
SITE	15	TRANSFORMER STOR.	RVFS
SITE	17	HW MAG.	RVFS
** MCAGCC 29 PALMS, CA (NAVY)			
SITE	1	TRANSFORMER SPILL AREA	RVFS
SITE	11	RUST PROOFING SPILL AREA	RVFS
SITE	18	CRASH TRAINING PIT 18	RVFS
SITE	7	CRASH TRAINING PIT 2	RVFS
SITE	8	CRASH TRAINING PIT 3	RVFS
SITE	10	EVAPORATION PONDS	RVFS
SITE	14	LANDFILL 1	RVFS
SITE	16	LANDFILL 3	RVFS
** MCAS EL TORO, CA (NAVY)			
SITE	9	CRASH CREW PIT NOL	RVFS
SITE	11	TRANSFORMER STOR. AREA	RVFS
SITE	14	BATTERY ACID DISP PIT	RVFS
SITE	18	CRASH CREW PIT NO 2	RVFS
** MCAS YUMA, AZ (NAVY)			
SITE	7	FIRE SCHOOL	RVFS
SITE	9	SE SEWAGE LAGOON	RVFS
SITE	13	SOIL REMOVAL AREA	RA
** MCB CAMP LEJEUNE, NC (NAVY)			
SITE	35	CAMP GEIGER AREA FUEL FARM	RVFS
SITE	36	CAMP GEIGER AREA DUMP	RVFS
** MAB CORONADO, CA (NAVY)			
SITE	2	OLD REFUSE DISPBURN AREA	RVFS
SITE	6	FIRE FIGHTING TRAINING AREA	RVFS
SITE	8	OILED AREAS	RVFS
** MAB LITTLE CREEK, VA (NAVY)			
SITE	11	SCHOOL OF MUSIC PLAYING	RVFS
** NADC WARRMINSTER, PA (NAVY)			
SITE	9	STOCKPILE	RVFS
** NAS ADAX, AK (NAVY)			
SITE	32	TANK FARM & FUEL LEAK	RVFS
SITE	10	PALISADES LAKE PCB SPILL	RVFS

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY C *

Site Name	Description	Project
SITE 11	PALISADES LAKE LANDFILL	RVFS
SITE 15	OLD HW STOR.	RVFS
SITE 16	FIRE TRAINING AREA	RVFS
SITE 17	POWER PLNT WASTE OIL	RVFS
SITE 20	WHITE ALICE CREEK DISP.	RVFS
SITE 21	WHITE ALICE CREEK DISP.	RVFS
SITE 22	WHITE ALICE PCB SPILL	RVFS
SITE 23	HEART LAKE DRUM DISP. AREA	RVFS
SITE 24	ROBERTS DRUM/SLUDGE DISP	RVFS
SITE 25	ROBERTS LANDFILL	RVFS
SITE 26	MITT LAKE DRUM DISP.	RVFS
SITE 27	LAKE LEONE DRUM DISP.	RVFS
SITE 28	LAKE BETTY DRUM DISP.	RVFS
SITE 30	MAG. 4 LNDFL	RVFS
** NAS AGANA, GU (NAVY)		
SITE 1	SANITARY LANDFILL	RVFS
SITE 2	DRAIN BASIN HOLD PIT	RVFS
SITE 8	FINEGAYAN LANDFILL 1	RVFS
SITE 9	FINEGAYAN LANDFILL 2	RVFS
** NAS ALAMEDA, CA (NAVY)		
SITE 7	BLDG 360	RVFS
** NAS CHASE FIELD, TX (NAVY)		
SITE 3	OLD FIRE FIGHTING TRAINING AREA	RVFS
** NAS KEY WEST, FL (NAVY)		
SITE 1	TRUMAN ANNEX DISP AREA	RVFS
SITE 3	TRUMAN ANNEX DOT MIXING AREA	RVFS
SITE 4	BOCA CHUCA OPEN DISP AREA	RVFS
SITE 5	BOCA CHUCA DOT MIXING AREA	RVFS
** NAS KINGSVILLE, TX (NAVY)		
SITE 1	SEWAGE TREATMENT PLANT LNDFL	RVFS
SITE 2	AVGAS FUEL FARM N	RVRA
SITE 3	TRANS WTR POOL	RVFS
SITE 6	FIRE FIGHTING TRAINING AREA	RVFS
SITE 8	LANDFILL	RVFS
SITE 10	WASTE POL/SOLVENT DISP	RVFS
** NAS LEMOORE, CA (NAVY)		
SITE 2	BLDG 152 PEST RINSE	RVFS
SITE 3	BLDG 50 PEST RINSE	RVFS
SITE 4	OLD FIRE TRAINING AREA	RVRA
SITE 5	FIRE FIGHTING SCHOOL	RVFS
SITE 7	HOUSING AREA OPEN DITCH	RVRA
SITE 9	WQ. TREATMENT SLUDGE PONDS	RVRA
SITE 11	BLDG J TRANSFORMER SPILL	RVFS
SITE 12	BLDG 288 TRANSFORMER SPILL	RVFS
SITE 13	TRANSFORMER STORAGE AREA	RVFS

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY C *

Site Name	Description	Project
** NAS MEMPHIS, TN (NAVY)		
SITE 8	CEMETERY DISP.	RVFS
** NAS MIRAMAR, CA (NAVY)		
SITE 4	FIRE FIGHTING DRILL FIELDS	RVFS
** NAS NEW ORLEANS, LA (NAVY)		
SITE .	FIRE FIGHTING TRAINING AREA	RVFS
SITE 6	FUEL TANK STRIPPING BURN AREA	RVFS
SITE 9	LNOFL AT B 704	RVFS
** NAS NORTH ISLAND, CA (NAVY)		
SITE .	SHORELINE SEDIMENTS	RVFS
SITE .	GOLF COURSE GARAGE DISP	RVFS
SITE .	HERITAGE PARK PW YARD	RVFS
SITE 9	CHEM. WASTE DISPOSAL AREA	RVFS
SITE 10	PROPERTY DISPOSAL AREA	RVFS
** NAS OCEANA, VA (NAVY)		
SITE 1	WEST WOODS OIL DISP PIT	RVFS
SITE 7	FIFTH GREEN	RVFS
SITE 8	N. STATION LNOFL	RVFS
** NAS PATUXENT RIVER, MD (NAVY)		
SITE 1	FISHERY PT LNOFL	RVFS
SITE 2	DISP NEAR POND 1	RVFS
SITE 6	STOR AREA FUEL FARM	RVFS
SITE 15	01111/180 FORMER WASHRACK	RVFS
SITE 17	PEST CONTROL B 841	RVFS
SITE 28	TRANSFORMER STORAGE BS16	RVFS
SITE 29	B 306/CARBON TETRA CHLORIDE	RVFS
** NAS WHIDBEY ISLAND, WA (NAVY)		
SITE 4	WALKER BARN STORAGE AREA	RVFS
SITE 5	HIGHWAY 20/HOFFMAN ROAD LANDFILL	RVFS
** NAS WILLOW GROVE, PA (NAVY)		
SITE 2	ANTENNA FIELD LNOFL	RVFS
SITE 5	FIRE TRAINING AREA	RVFS
** NETA NEWPORT, RI (NAVY)		
SITE 17	GOULD ISLAND ELECTROPLATING	RVFS
** NOS LOUISVILLE, KY (NAVY)		
SITE 4	NW CORNER LIQUID DISP AREA	RVFS
** NMTF DRIVER, VA (NAVY)		
SITE 1	LANDFILL	RVFS
SITE 5	PCB SPILL	RVFS
SITE 8	SERVICE STATION GAS LEAK	RVFS
** NS MAYPORT, FL (NAVY)		
SITE 4	LNOFL D	RVFS
SITE 5	LNOFL E	RVFS

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY C *

Site Name	Description	Project
SITE 6	LNDFL F	RI/FS
** NS ROOSEVELT ROADS, PR (NAVY)		
SITE 2	MANGROVE DISP. SITE	RI/FS
SITE 3	IRRNA/MAF-4 DISP SITE	RI/FS
SITE 5	ARMY CREMATOR DISP AREA	RI/FS
SITE 6	LANGLEY DR DISP. AREA	RI/FS
SITE 8	DRONE WASHDOWN	RI/FS
** NSB BANGOR, WA (NAVY)		
SITE 5	METALLURGY FAC RUBBLE	RI/FS
** NSB SAN DIEGO, CA (NAVY)		
SITE 3	NSC-PLA OIL DISP PITS	RI/FS
SITE 4	NSC-PLA TANK BOTTOMS	RI/FS
SITE 5	NOSC N. COAST DISP	RI/FS
SITE 10	NOSC SLUDGE DISP	RI/FS
SITE 13	DRUM DISPOSAL AREA	RI/FS
SITE 16	DEGAUSSING P. TABLE DISP.	RI/FS
** NSC CHEATHAM ANX WILLIAMSBURG, VA (NAVY)		
SITE 1	LANDFILL NEAR INCINERATOR	RI/FS
SITE 10	D. CON AGNT DISP NEAR 1ST	RI/FS
SITE 14	TANK BOTT.	RI/FS
SITE 16	TANK BOTT.	RI/FS
SITE 17	TANK BOTT.	RI/FS
SITE 18	TANK BOTT.	RI/FS
SITE 22	TANK BOTT.	RI/FS
SITE 23	TANK BOTT.	RI/FS
SITE 24	TANK BOTT.	RI/FS
SITE 25	TANK BOTT.	RI/FS
** NSC NORFOLK, VA (NAVY)		
SITE 1	BALLAST DISP LAGOONS	RI/FS
SITE 2	OILY SLUDGE LANDSPREAD	RI/FS
SITE 3	OILY SLUDGE PIT	RI/FS
SITE 4	WASTE OIL DRUM STORAGE AREA	RI/FS
** NSY CHARLESTON, SC (NAVY)		
SITE 8	CAUSTIC PIT	RI/FS
** NSY HUNTER'S POINT, CA (NAVY)		
SITE 6	OLD TRANSFORMER STORAGE	RI/FS
** NSY PHILADELPHIA, PA (NAVY)		
SITE 3	TRANSFORMER STORAGE AREA B 825	RI/FS
SITE 6	SUBSTATION 82 TRANSF OIL SPILL	RI/FS
SITE 7	B 546-PCB TRANSFORMER SPILL	RI/FS
** NSY FUGET SOUND, WA (NAVY)		
SITE 6	CONTAMINATED DREDGE MATERIAL	RA
** NTC GREAT LAKES, IL (NAVY)		
SITE 1	GOLF COURSE LNDFL	RI/FS

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY C *

Site Name	Site No.	Description	Project
	SITE 4	FIRE FIGHTING TRAINING AREA	RI/FS
	SITE 5	TRANSFORMER STOR. "BONEYARD"	RI/FS
	SITE 6	MAINSIDE TRANSFORMER STOR.	RI/RA
** NTC SAN DIEGO, CA (NAVY)			
	SITE 2	BLDG 227 UNDRGRND TANK	RI/FS
	SITE 5	BLDG 352 UNDR GRND TANK	RI/FS
** NWC CHINA LAKE, CA (NAVY)			
	SITE 3	ARMITAGE FIELD LEACH POND	RI/RA
	SITE 7	MICHELSON LAB DRAINAGE	RI/RA
	SITE 12	SHORT RD LNOFL	RI/RA
	SITE 12	SHORT ROAD LNOFL	RI/RA
	SITE 13	OILY WASTE DISP. AREA	RI/RA
	SITE 14	ER RANGE SEPTIC SYS	RI/RA
	SITE 15	R RANGE SEPTIC SYS	RI/FS
	SITE 16	G-1 RANGE SEPTIC SYS	RI/FS
	SITE 17	G 2 RANGE SEPTIC SYS	RI/FS
	SITE 22	PILOT PLANT RD	RI/FS
	SITE 27	NAF DISP. AREA	RI/FS
	SITE 31	PW PESTICIDE RINSE AREA	RI/FS
	SITE 32	GOLF COURSE PESTICIDE RINSE	RI/FS
	SITE 34	LAURITSEN ROAD LANDFILL	RI/RA
** NWIRP DALLAS, TX (NAVY)			
	SITE 4	FORMER ACID NEUT PIT	RI/FS
	SITE 5	IWC PIPELINE LEAK	RI/FS
	SITE 6	FORMER REFUSE BURN PIT	RI/FS
	SITE 9	FIREBRICK BURIAL SITE	RI/FS
** NWS SEAL BEACH, CA (NAVY)			
	SITE 19	BLDG 241 DISP PIT	RI/FS
** NWS YORKTOWN, VA (NAVY)			
	SITE 11	ABANDONED EXPLOSIVES BURNING PIT	RI/FS
	SITE 19	CONVEYOR BELT SOILS AT BLDG 10	RI/FS
** NWSC CRANE, IN (NAVY)			
	SITE 2	MCCORMISH GROGE	RI/FS
	SITE 5	PESTICIDE SHOP 5-2189	RI/FS
	SITE 6	ROADS AND GROUNDS AREA	RI/FS
	SITE 14	MINE FILL A AND B	RI/FS
	SITE 15	ROCKEYE	RI/FS
** SPCC MECHANICSBURG, PA (NAVY)			
	SITE 4	RADIOACTIVE WASTE DISP	RI/FS
	SITE 5	GOLF COURSE LANDFILL	RI/FS
		
		
		

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY C *

Site Name	Description	Project
** AFP NO.38, NY (AF)		
SITE S1	S1	RA
SITE S2	S2	RA
SITE S3	S3	RA
SITE S4	S4	RA
** AFP NO.42, PALMDALE, CA (AF)		
SITE 1-1	ENGINE RUN-UP AREA	RI
SITE 2-2	PAINT WASTE DISPOSAL AREA	RI
SITE 2-3	PAINT WASTE DISPOSAL AREA	RI
SITE 2-4	ABANDONED DISPOSAL AREA	RI
SITE 2-5	DISPOSAL AREA	RI
SITE 2-6	DISPOSAL AREA	RI
SITE 2-8	ENGINE RUN-UP AREA	RI
SITE 3-1	ENGINE RUN-UP AREA	RI
SITE 3-2	EVAPORATION PONDS	RI
SITE 4-1	FUEL TRANSFER AREA	RI
SITE 5-2	FUEL DISPOSAL AREA	RI
SITE 6-1	ENGINE RUN-UP AREA	RI
SITE C-2	NEW FDTA	RI
SITE C-3	LANDFILL	RI
SITE 2-10	DISPOSAL AREA	RI
SITE 2-11	NOISE LEVEL AREA	RI
SITE 2-12	TEB DISPOSAL AREA	RI
** AFP NO.59, JOHNSON CITY, NY (AF)		
SITE S1	S1	RI/FS
SITE S2	S2	RI/FS
SITE S3	S3	RI/FS
** AFP NO.70, FOLSOM, CA (AF)		
SITE 01	DRUM STORAGE AREA	PA/SI
** AFP NO.78, CORINNE, UT (AF)		
SITE S 01	S1	RI/FS
SITE S 02	S2	RI/FS
SITE S 03	S3	RI/FS
SITE S 04	S4	RI/FS
SITE OT 01	FRENCH DITCH	RI/FS
SITE OT 03	X O MAT WASTEWATER DISCHARGE AREA 1	RI/FS
SITE OT 04	X O MAT WASTEWATER DISCHARGE AREA 2	RI/FS
** AFP NO.83, ALBUQUERQUE, NM (AF)		
SITE S1	S1	RI/FS
SITE S2	S2	RI/FS
SITE S3	S3	RI/FS
SITE S4	S4	RI/FS
SITE S5	S5	RI/FS
** AFP NO.85, COLUMBUS, OH (AF)		
SITE 02	COAL PILE LEACHATE SITE	RI/FS
SITE 3&9	NE BLOG FUEL TANK	RI/FS

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY C *

Site Name	Description	Project
** ANDERSEN AFB, GU (AF)		
SITE 05	RMW CENTRAL SOIL	RD
SITE DS 02	DRUM STORAGE AREA	RA/RO
** BARKSDALE AFB, LA (AF)		
SITE WP 12	POL FLIGHT LINE TANK SLUDGE DISPOSAL	RI
** BEALE AFB, CA (AF)		
SITE 06	DISCHARGE AREA 3	RI
SITE 07	LANDFILL 2	RI
SITE 08	DISCHARGE AREA 4	RI
SITE 09	DISCHARGE AREA 6	RI
SITE 10	DISCHARGE AREA 9	RI
SITE 11	DISCHARGE AREA 5	RI
SITE 12	DISCHARGE AREA 7	RI
SITE 13	DISCHARGE AREA 10	RI
SITE 15	DISCHARGE AREA 8	RI
SITE 16	LANDFILL 3	RI
SITE DS 01	BEST SLOUGH	RI
SITE LU 01	POL TANK FARM	RV/RO
SITE OT 01	ORDINANCE DISPOSAL	RI
** BELLOWS AFS, HI (AF)		
SITE LF 02	LANDFILL WW II SHOP AREA	RI
SITE OT 01	SHOP AREA SEPTIC TANK	RI
** BLYTHEVILLE AFB, AR (AF)		
SITE LF 01	LANDFILL 1	RI
SITE LF 03	LANDFILL 3	RI
SITE SS 02	SPILL/LEAK 2	RI
** BOLLING AFB, DC (AF)		
SITE 01	FPTA	RI
** BROOKS AFB, TX (AF)		
SITE FT 01	FPTA 2	RI
SITE FT 03	FPTA 3	RI
SITE LF 01	LANDFILL 1	RI
SITE LF 02	LANDFILL 2	RI
SITE LF 03	LANDFILL 3	RI
SITE LF 04	LANDFILL 4	RI
** CAMPION AFS, AK (AF)		
SITE DS 01	WASTE ACCUMULATION 1	RI
SITE LF 02	LANDFILL 2	RI
SITE OT 01	WHITE ALICE SITE	RI
** CAPE LISBURNE AFS, AK (AF)		
SITE OT 01	RUNWAY OILING	RI
SITE OT 02	WHITE ALICE SITE	RI
** CAPE NEWENHAM AFS, AK (AF)		
SITE OT 02	WHITE ALICE SITE	RI

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY C *

Site Name	Description	Project
** CAPE ROMANZOF AFS, AK (AF)		
SITE 01	LRRS SITE	RA
SITE OT 02	WHITE ALICE SITE	RI
** CARSWELL AFB, TX (AF)		
SITE 02	LANDFILL 2	RI
SITE 03	LANDFILL 3	RI
SITE 06	LANDFILL 6	RI
SITE 11	FTDA 1	RI
SITE 14	PESTICIDE HINSE AHI A	RI
** CASTLE AFB, CA (AF)		
SITE SS 03	FUEL SPILL 2&3	RO
** COLD BAY AFS, AK (AF)		
SITE LF 01	LANDFILL	RI
SITE OT 01	ROAD OILING	RI
SITE SS 01	SPILL	RI
** DOBBINS AFB, GA (AF)		
SITE 03	FTDA, PRESENT	FS
SITE 06	AVGAS SLUDGE BURIAL	FS
SITE 08	LEADED PAINT BURIAL	FS
** DYESS AFB, TX (AF)		
SITE FT 02	FIRE TRAINING AREA 2	RI
SITE OT 03	S. DIVERSION DITCH 1	RI
SITE WP 01	POL SLUDGE PIT AREA 1	RI
** EDWARDS AFB, CA (AF)		
SITE 17	BLDG 1404 LEAKING FUEL TANKS	RA/RO
SITE 19	BLDG 1928	RO
** EGLIN AFB, FL (AF)		
SITE OT 01	HERD FACILITY	RA
** EIELSON AFB, AK (AF)		
SITE 04	OLD ARMY EOD AREA	RI
SITE 05	OLD ARMY LNDFL	RI
SITE 06	OLD LNDFL	RI
SITE 14	E-2 RR	RI
SITE 21	OILING QUARRY RD	RI
SITE 22	OILING IND. DR	RI
SITE 23	OILING MANCHU RD	RI
SITE 24	OILING GRAVEL HAUL RD	RI
SITE 25	FUEL TANK SLUDGE	RI
SITE 26	E-10 FUEL TANK SLUDGE	RI
SITE 27	E-11 FUEL TANK SLUDGE	RI
SITE 29	DRUM BURIAL SITE	RI
SITE 34	SLUDGE DRYING BEDS	RI
SITE 42	MISC. DISP. AREA	RI
** ELLSWORTH AFB, SD (AF)		
SITE SP-1	PUMPHOUSE NO 7	RI

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY C *

Site Name	Description	Project
SITE LF 02	LANDFILL 2	RI
SITE LF 04	LANDFILL 4	RI
SITE LF 05	LANDFILL 5	RI
SITE LF 06	LANDFILL 6	RI
SITE RW 01	LOW LEVEL RADIOACTIVE WASTE BURIAL SITE	RI
SITE SP 02	C-9 LF COOLANT SPILL	RI
SITE SP 03	HYDRANT LINE LEAKS	RI
SITE SP 04	EOD PRAMITOL SPILL	RI
SITE SP 05	C-11 LF COOLANT SPILL	RI
SITE SP 06	N-10 LF COOLANT SPILL	RI
** ELMENDORF AFB, AK (AF)		
SITE D4	DISPOSAL SITE	RI
SITE D-3	SANITARY LANDFILL	RI
SITE D-7	SANITARY LANDFILL	RI
SITE S-6	PCB TRANSFORMER STORAGE	RI
SITE D-13	DISPOSAL SITE	RI
SITE D-16	POL SLUDGE DISPOSAL	RI
SITE IS-2	BLDG 42-425 DRAINS	RI
SITE IS-3	BLDG 43-550 FLOOR DRAINS	RI
SITE IS-4	BLDG 43-300 FLOOR DRAINS	RI
SITE IS-5	BLDG 43-410 FLOOR DRAINS	RI
SITE IS-7	BLDG 21-900	RI
SITE SP-1	DIESEL FUEL LINE LEAK	RI
SITE SP-4	RAILROAD MAINT. AREA	RI
SITE IS-8	BLDG 32-060 DRAINS	RI
SITE OT-03	BLDG 43-450 FLOOR DRAINS	RI
SITE SP-13	DIESEL FUEL LINE LEAK	RI
** F.E. WARREN AFB, WY (AF)		
SITE 03	SITE 3, BLDG 338 SPILL	RI
SITE 05	SITE 5, BLDG 336 SPILL	RI
SITE 06	SITE 6, BLDG 316 SPILL	RI
** GEORGE AFB, CA (AF)		
SITE B 08	PEST. AND PAINT BURIAL	RA/RD
SITE B 09	ACID AND OIL BURIAL	RA/RD
SITE B 10	PEST. AND OIL BURIAL	RA/RD
SITE L 01	BASE LANDFILL	FS
SITE L 02	DISPOSAL SITE	FS
SITE L 03	RADIOACTIVE/TOXIC DISPOSAL	FS
SITE L 04	STARTER CARTRIDGE DISPOSAL ARE	FS
SITE L 11	STREET SWEEPING DIS.	RA/RD
SITE L 12	ORIGINAL BASE LANDFILL	RA/RD
SITE L 13	BASE LANDFILL	RA/RD
SITE M 02	M-2 MUNITIONS DISP	RD
** GOWEN FIELD (BOISE), ID (AF)		
SITE 95	SITES 1,2,5,6	RI/FS
** GRAND FORKS AFB, ND (AF)		
SITE FT 01	FIRE TRAINING PIT	RI
SITE LF 01	LANDFILL AREA	RI

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY C *

Site Name	Description	Project
SITE MU 01	EOD AREA	RI
** GREATER PITTSBURGH IAP, PA (AF)		
SITE 01	POL AREA	FS
SITE S 01	PAST POL AREA	FS
SITE S 02	CE RUBBLE LANDFILL	FS
SITE DS 01	DRUM STORAGE BLDG 408	FS
SITE DS 02	DRUM STORAGE BLDG 416	FS
SITE OT 01	FUEL LINE BREAK BLDG 316	FS
SITE OT 03	PCB STORAGE BLDG 342	FS
** GRIFFISS AFB, NY (AF)		
SITE T9	CONTAMINATED AREA NEAR T9	RA
SITE B20	CONTAMINATED AREA NEAR BLDG 20	RA
SITE B26	BLDG 26 UST	RA
SITE NP-1	UT AT NEWPORT AREA	HA
SITE DS 01	BULK FUEL STORAGE AREA	RD
SITE FT 01	FPTA	RA/RD
** GRISSOM AFB, IN (AF)		
SITE 30	PH II STUDIES	RI
SITE FT 01	FTA 1	RI
SITE FT 02	FTA 2	RI
SITE LF 01	LANDFILL 1	RI
SITE LF 02	LANDFILL 2	RI
SITE OT 01	SLUDGE WEATHERING SITE	RI
SITE OT 02	WASTE OIL STORAGE PAD	RI
** HANSCOM AFB, MA (AF)		
SITE SS 02	MERCURY SPILL	RA/RD
** HICKAM AFB, HI (AF)		
SITE 01	HICKAM SITE 1	RI
SITE 09	FUEL LEAK	RI
SITE 10	FUEL LEAK	RI
SITE 11	FUEL LEAK	RI
SITE 12	FUEL LEAK	RI
SITE 16	FUEL LEAK	RI
SITE 17	FUEL LEAK	RI
SITE 18	FUEL LEAK	RI
SITE 21	CANAL STORM DRAINAGE SYSTEM	RI
SITE 22	KUMUNAI CANAL STORM DRAIN SYSTEM	RI
SITE 23	MTR POOL STORM DRAIN SYS	RI
** INDIAN MOUNTAIN RESEARCH SITE, AK (AF)		
SITE OT 02	WHITE ALICE SITE	RI
** K.L.SAWYER, MI (AF)		
SITE 01	POL AREA	RI
** KEESLER AFB, MS (AF)		
SITE 01	LANDFILL 1	RI
SITE LU 01	LU01	RI/FS

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY C *

Site Name	Description	Project
** MINN ST. PAUL IAP, MN (AF)		
SITE 04	MOGAS SPILL	FS
SITE 06	LIQ. SLUDGE BURIAL PIT	FS
SITE P-04	NAVAL BLDG HTG FUEL SPILL	FS
** NIAGARA FALLS IAP, NY (AF)		
SITE DS 03	BLDG 850 DRUM STORAGE	RI
SITE FT 01	FPTA 1	RI
SITE FT 02	FPTA 2	RI
** NORTON AFB, CA (AF)		
SITE 01	BURNING LAGOON SITE 17	RA
SITE DS 01	WASTE DRUM STORAGE 3	RA
** O'HARE AIR RESERVE, IL (AF)		
SITE RW 01	LOW LEVEL RADIOACTIVE DISPOSAL SITE	FS
** OFFUTT AFB, NE (AF)		
SITE RW 01	RADIOACTIVE WASTE SITE	RI
SITE SS 02	SPILL SITE 2	RI
** PATRICK AFB, FL (AF)		
SITE 03	CHEMICAL DISPOSAL SITE	RA
** PEASE AFB, NH (AF)		
SITE 02	LANDFILL 2	RI
SITE 03	LANDFILL 3	RI
SITE 04	LANDFILL 4	RI
SITE 06	LANDFILL 6	RI
SITE 07	FPTA 1	RI
SITE 10	FUEL TANK SLUDGE DISP.	RI
SITE 14	ZONE 6 FUEL LINE SPILL	RI
SITE 15	IND. SHOP / PARKING APRON	RI
SITE 17	CONSTR. RUBBLE DUMP 2	RI
SITE 19	GRAFTON DITCH	RI
SITE 20	NEW FIELD DITCH	RI
SITE 21	MCINTYRE BROOK	RI
SITE 11A	FMS EQUIP/ CLEANING	RI
** PLATTSBURGH AFB, NY (AF)		
SITE SP-2	HEATING FUEL SPILL, BLDG 205	RI
SITE SP-5	JP-4 SPILL, INSULATION VALVE	RI
SITE SP-7	DPOO FUEL OIL SPILL	RI
SITE SP-11	ENGINE OIL SPILLS, CAPEHART MSG	RI
SITE SP-12	NEW PRODUCT DRUM STORAGE AREA	RI
SITE SP-13	NEW AND USED SOLVENT DRUM STORAGE	RV/RA
** RICKENBACKER ANG, OH (AF)		
SITE 95	MULTIPLE SITES	FS
SITE S-1	S-1	RI/FS
SITE S-2	S-2	RI/FS
SITE S-3	S-3	RI/FS
SITE S-4	S-4	RI/FS
SITE S-5	S-5	RI/FS

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFE SE PRIORITIES LIST**

* PRIORITY C *

Site Name	Description	Project
** SHEPPARD AFB, TX (AF)		
SITE 01	TELCON MANHOLE 5	RI/FS
SITE FT 01	FPTA 1	RI/FS
SITE FT 02	FPTA 3	RI/FS
SITE FT 03	FPTA 2	RI
SITE LF 01	LANDFILL #3 AND HARDFILL	RI/FS
SITE LF 02	LANDFILL 1	RI
SITE LF 03	LANDFILL 2	RI
SITE LU 01	BLDG 2017 BEA ABANDONED UST	FS
SITE LU 02	BLDG T-35 IEA ABANDONED UST	FS
SITE LU 03	BLDG 990 1 EA ABANDONED UST	FS
SITE LU 04	BLDG 2548 90 EA ABANDONED UST	FS
SITE LU 05	UST BLDG 920	RI/FS
SITE OT 01	PESTICIDE SPRAY AREA	RI
SITE WP 02	INDUSTRIAL WASTE PIT	RI
** TBN CITY AFS, AK (AF)		
SITE OT 01	ROAD OILING	RI
SITE OT 02	WHITE ALICE SITE	RI
** TINKER AFB, OK (AF)		
SITE 01	IWTP TANKS	FS
** USAF ACADEMY, CO (AF)		
SITE FT 01	FOTA	RI
SITE LF 02	LANDFILL 1	RI
SITE LF 03	LANDFILL 2	RI
SITE OT 01	FIRING RANGE	RI
SITE OT 02	WW II DISP. SITE	RI
SITE WP 01	DIGESTED SLUDGE DISP. SITE	RI
SITE WP 03	DREDGED MAT. DISP. SITE	RI
** WAKE ISLAND AIRFIELD, TT (AF)		
SITE 19	IND. LNDFL. FTA	RI
SITE FT-02	AIRFIELD SITE 13	RI
SITE FT-03	AIRFIELD SITE 14	RI
** WHEELER AFB, HI (AF)		
SITE 01	CLEAN-UP	RI/FS
SITE 02	CLEAN-UP	RI/FS
SITE 05	AIRCRAFT PARKING /WASH RACK	RI
SITE 06	AIRCRAFT PARKING	RI
SITE 07	SANITARY SEWER SYSTEM	RI/FS
** WHITEMAN AFB, MO (AF)		
SITE DS 01	DRUM STORAGE BLDG 7 9	RI
SITE FT 02	FPTA 2	RI
SITE LF 01	LANDFILL 1	RI
SITE LF 02	LANDFILL 2	RI
SITE LF 03	LANDFILL 3	RI
SITE LF 04	LANDFILL 4	RI
SITE LU 01	FLIGHTLINE UNDERGROUND FUEL TANK	RI
SITE OT 02	STORMWATER DRAINAGE, WASH RACK	RI

02/27/87

DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST

* PRIORITY C *

Site Name	Description	Project
** WRIGHT-PATTERSON AFB, OH (AF)		
SITE OT 04	CENTRAL HEATING PLANT 3. BLDG 170	RI
SITE OT 05	CENTRAL HEATING PLANT 4. BLDG 1240	RI
SITE OT 06	CENTRAL HEATING PLANT 5. BLDG 770	RI
** WURTSMITH AFB, MI (AF)		
SITE D 06	D 06 LANDFILL NORTH AREA	RI
SITE FT 01	FT 01.FTA 1	RI
SITE FT 02	FT 02.FTA 2	RI
SITE SP 01	SP 01.SP 02.SP 03 SP 05 SP 07	RI
SITE SP 08	SP 08.SP 09 SP 10.SP 11 SP 12	RI
SITE SP 14	SP 14.SP 17.SS 01	RI
	
	
	
** ODMT MEMPHIS, TN (DEFENSE LOGISTICS AGENCY)		
SITE 1	FIRE RESERVIOR	RI/FS

APPENDIX C

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

ALASKA

Site Name		Description	Project	Priority
** FORT WAINWRIGHT (ARMY)				
SITE	2	OLD DRUM STORAGE AREA	RI/FS	C
SITE	3	FAMILY HOUSING AREA	RI/FS	C
SITE	4	COAL PILE	RI/FS	C
** NAS ADAX (NAVY)				
SITE	13	METALS LNDFL	RI/FS	B
SITE	32	TANK FARM A FUEL LEAK	RI/FS	C
SITE	.	ANDREW LAKE LANDFILL	RI/FS	B
SITE	.	EXPLOSIVE ORONANCE CONTAMINATED AREAS	RI/FS	B
SITE	10	PALISADES LAKE PCB SPILL	RI/FS	C
SITE	11	PALISADES LAKE LANDFILL	RI/FS	C
SITE	14	PEST CONTROL DISP. AREA	RI/FS	B
SITE	15	OLD HW STOR.	RI/FS	C
SITE	16	FIRE TRAINING AREA	RI/FS	C
SITE	17	POWER PLNT WASTE OIL	RI/FS	C
SITE	20	WHITE ALICE CREEK DISP.	RI/FS	C
SITE	21	WHITE ALICE CREEK DISP.	RI/FS	C
SITE	22	WHITE ALICE PCB SPILL	RI/FS	C
SITE	23	HEART LAKE DRUM DISP. AREA	RI/FS	C
SITE	24	ROBERTS DRUM/SLUDGE DISP	RI/FS	C
SITE	25	ROBERTS LANDFILL	RI/FS	C
SITE	26	MITT LAKE DRUM DISP.	RI/FS	C
SITE	27	LAKE LEONE DRUM DISP	RI/FS	C
SITE	28	LAKE BETTY DRUM DISP.	RI/FS	C
SITE	29	FINGER BAY LANDFILL	RI/FS	B
SITE	30	MAG. 4 LNDFL	RI/FS	C
** CAMPION AFS (AF)				
SITE	OS 02	WASTE ACCUMULATION 2	RI	B
SITE	OS 01	WASTE ACCUMULATION 1	RI	C
SITE	LF 01	LANDFILL 1	RI	B
SITE	LF 02	LANDFILL 2	RI	C
SITE	OT 01	WHITE ALICE SITE	RI	C
SITE	SS 01	SPILL / LEAK 1	RI	B
** CAPE LISBURNE AFS (AF)				
SITE	LF 01	LANDFILL 1	RI	B
SITE	OT 01	RUNWAY OILING	RI	C
SITE	OT 02	WHITE ALICE SITE	RI	C
SITE	SS 01	SPILL 1	RI	B
SITE	SS 02	SPILL 2	RI	B
SITE	WP 02	DUMP 2	RI	B
** CAPE HEWENHAM AFS (AF)				
SITE	OS 01	WASTE ACCUMULATION 3	RI	B
SITE	LF 01	LANDFILL 1	RI	B
SITE	LF 02	LANDFILL 2	RI	B
SITE	OT 01	ROAD OILING	RI	B
SITE	OT 02	WHITE ALICE SITE	RI	C
SITE	WP 01	DUMP AREA	RI	B

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

ALASKA

Site Name	Description	Project	Priority
** CAPE ROMANZOF AFS (AF)			
SITE 01	LRRS SITE	RA	C
SITE DS 01	WASTE ACCUMULATION 2	RI	B
SITE LF 01	LANDFILL 1	RI	B
SITE LF 02	LANDFILL 2	RI	B
SITE LF 03	LANDFILL 3	RI	B
SITE OT 01	ROAD OILING	RI	B
SITE OT 02	WHITE ALICE SITE	RI	C
SITE SS 01	WASTE ACCUMULATION 1	RI	B
SITE SS 02	WASTE ACCUMULATION 3	RI	B
SITE SS 03	SPILL 3	RI	B
SITE SS 04	SPILL 4	RI	B
SITE WP 01	DUMP AREAS	RI	B
** COLD BAY AFS (AF)			
SITE LF 01	LANDFILL	RI	C
SITE OT 01	ROAD OILING	RI	C
SITE SS 01	SPILL	RI	C
** EIELSON AFB (AF)			
SITE 02	OLD BASE LNDFL	RI	B
SITE 03	CURRENT BASE LNDFL	RI	B
SITE 04	OLD ARMY EOD AREA	RI	C
SITE 05	OLD ARMY LNDFL	RI	C
SITE 06	OLD LNDFL	RI	C
SITE 08	FOTA (PAST)	RI	B
SITE 09	FOTA (PRESENT)	RI	B
SITE 10	E-2 POL STOR.	RI	B
SITE 11	FUEL SATURATED AREA	RI	B
SITE 13	E-4 DIESEL FUEL SPILL	RI	B
SITE 14	E-2 RR	RI	C
SITE 15	FUEL LINE	RI	B
SITE 16	MOGAS FUEL SPILL	RI	B
SITE 17	CANOL PIPELINE SPILL	RI	B
SITE 19	JP-4 SPILL	RI	B
SITE 20	REFUELING LOOP	RI	B
SITE 21	OILING QUARRY RD	RI	C
SITE 22	OILING IND. DR	RI	C
SITE 23	OILING MANCHU RD	RI	C
SITE 24	OILING GRAVEL HAUL RD	RI	C
SITE 25	FUEL TANK SLUDGE	RI	C
SITE 26	E-10 FUEL TANK SLUDGE	RI	C
SITE 27	E-11 FUEL TANK SLUDGE	RI	C
SITE 29	DRUM BURIAL SITE	RI	C
SITE 32	SEWAGE TREATMENT SPILL POND	RI	B
SITE 34	SLUDGE DRYING BEDS	RI	C
SITE 35	ASPHALT MIXING AREA	RI	B
SITE 36	DRUM STORAGE SITE	RI	B
SITE 37	DRUM STORAGE	RI	B
SITE 38	WASTE POL PIT	RI	B
SITE 39	ASPHALT LAKE	RI	B

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

ALASKA

Site Name	Description	Project	Priority
SITE 41	AUTO HOBBY SHOP	RI	B
SITE 42	MISC. DISP. AREA	RI	C
SITE 01	ORIG. BASE LNDFL	RI	B
** ELMENDORF AFB (AF)			
SITE 14	MOGAS SPILL SITE	RI	B
SITE 04	DISPOSAL SITE	RI	C
SITE D-3	SANITARY LANDFILL	RI	C
SITE D-7	SANITARY LANDFILL	RI	C
SITE S-6	PCB TRANSFORMER STORAGE	RI	C
SITE D-13	DISPOSAL SITE	RI	C
SITE D-16	POL SLUDGE DISPOSAL	RI	C
SITE D-17	SHOP WASTE DISPOSAL	RI	B
SITE D-5A	SANITARY LANDFILL	RI	B
SITE FT-1	FIRE TRAINING AREA	RI	B
SITE IS-1	BLDG 42-400 FLOOR DRAINS	RI	B
SITE IS-2	BLDG 42-425 DRAINS	RI	C
SITE IS-3	BLDG 43-550 FLOOR DRAINS	RI	C
SITE IS-4	BLDG 43-300 FLOOR DRAINS	RI	C
SITE IS-5	BLDG 43-410 FLOOR DRAINS	RI	C
SITE IS-7	BLDG 21-900	RI	C
SITE SP-1	DIESEL FUEL LINE LEAK	RI	C
SITE SP-2	JP-4 LINE LEAK	RI	B
SITE SP-4	RAILROAD MAINT. AREA	RI	C
SITE SP-5	BULK STORAGE TANK SPILL	RI	B
SITE SP-6	DIESEL FUEL SPILL	RI	B
SITE SP-7	PUMPHOUSE 3 SPILL SITE	RI	B
SITE IS-8	BLDG 32-080 DRAINS	RI	C
SITE OT-03	BLDG 43-450 FLOOR DRAINS	RI	C
SITE SP-11	JP-4 LINE LEAK	RI	B
SITE SP-13	DIESEL FUEL LINE LEAK	RI	C
SITE SP-15	AVGAS SPILL	RI	B
** FORT YUKON AFS (AF)			
SITE OS 01	WASTE ACCUMULATION	RI	B
SITE LF 01	LANDFILL 1	RI	B
SITE OT 01	OIL DISCHARGE	RI	B
SITE OT 02	ROAD OILING	RI	B
SITE OT 03	WHITE ALICE SITE	RI	B
** GALENA AIRPORT (AF)			
SITE FT 01	FPTA	RI	B
SITE SS 01	SPILL 1	RI	B
SITE SS 02	SPILL 2	RI	B
SITE SS 03	SPILL 3	RI	B
SITE SS 04	POL TANK FARM	RI	B
** INDIAN MOUNTAIN RESEARCH SITE (AF)			
SITE 9	SPILLS 1, 3, AND 8	RI	B
SITE OS 01	DUMP AREAS	RI	B
SITE OS 02	WASTE ACCUMULATION AREA 1	RI	B

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

ALASKA

Site Name	Description	Project	Priority
SITE DS 03	WASTE ACCUMULATION AREA 5	RI	B
SITE LF 01	LANDFILL 1	RI	B
SITE LF 02	LANDFILL 2	RI	B
SITE LF 03	WASTE ACCUMULATION AREA 4	RI	B
SITE OT 01	ROAD OILING	RI	B
SITE OT 02	WHITE ALICE SITE	RI	C
SITE SS 02	WASTE ACCUMULATION AREA 6	RI	B
SITE SS 01	WASTE ACCUMULATION AREA 3	RI	B
** MURPHY DOME AFS (AF)			
SITE DS 01	WASTE ACCUMULATION AREA 2	RI	B
SITE DS 02	WASTE ACCUMULATION AREA 3	RI	B
SITE LF 01	LANDFILL 1	RI	B
SITE LF 02	LANDFILL 2	RI	B
SITE OT 01	ROAD OILING	RI	B
SITE OT 02	WHITE ALICE	RI	B
SITE SS 01	WASTE ACCUMULATION AREA 1	RI	B
** SHEMYA AFB (AF)			
SITE 01	NW WATESHED	RA	B
** SMUGGLERS COVE RADIO RELAY (AF)			
SITE 01	WACS	RA	B
** SOLDOTNA (AF)			
SITE 1	WACS	RA	B
** SPARREVOHN AFS (AF)			
SITE LF 01	LANDFILL 1	RI	B
SITE OT 01	ROAD OILING	RI	B
SITE OT 02	TRANSMITTER PAD	RI	B
SITE OT 03	WHITE ALICE SITE	RI	B
SITE SS 02	SPILL 2	RI	B
SITE SS 03	WASTE ACCUMULATION AREA	RI	B
SITE WP 01	DUMP AREAS	RI	B
** TATALINA AFS (AF)			
SITE DS 01	DUMP AREAS	RI	B
SITE DS 02	WASTE ACCUMULATION AREA 1	RI	B
SITE DS 03	WASTE ACCUMULATION AREA 3	RI	B
SITE DS 04	WASTE ACCUMULATION AREA 4	RI	B
SITE LF 01	LANDFILL 2	RI	B
SITE LF 02	WASTE ACCUMULATION AREA 2	RI	B
SITE OT 01	ROAD OILING	RI	B
SITE OT 02	WHITE ALICE SITE	RI	B
SITE SS 01	SPILL 1,2,3, AND 4	RI	B
SITE SS 05	SPILL 5	RI	B
SITE SS 06	SPILL 6 AND 7	RI	B
SITE SS 08	SPILL 8	RI	B

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

ALASKA

Site Name	Description	Project	Priority
** TIN CITY AFS (AF)			
SITE DS 01	WASTE ACCUMULATION AREA	RI	B
SITE LF 01	LANDFILL	RI	B
SITE OT 01	ROAD OILING	RI	C
SITE OT 02	WHITE ALICE SITE	RI	C
SITE SS 01	SPILL 1	RI	B
SITE SS 02	SPILL 2	RI	B
SITE WP 01	DUMP 1	RI	B
SITE WP 02	DUMP 2	RI	B

ALABAMA

Site Name	Description	Project	Priority
** ALABAMA AAP (ARMY)			
SITE 001	MAGAZINE AREA	RA	A
SITE 002	OLD BURNING GROUNDS	RA	A
SITE 003	SMALL ARMS BALLASTICS RANGE	RA	A
SITE 004	OLD WELL	RA	A
SITE 005	PROPELLANT SHIPPING HOUSES	RI/FS	A
SITE 006	RUBBLE PILE	RA	A
** ANNISTON AD (ARMY)			
SITE 1	BLDG 114	RA	A
SITE 2	Z-1	RA	A
SITE 3	BLDG 130	RA	A
SITE 4	LANDFILL (SOUTH)	RA	A
SITE 5	OTHER (OPTION OF GWTS)	RA	A
** FORT MCCLELLAN (ARMY)			
SITE 4	RANGE T-24A	RI/FS	C
SITE 5	RANGE T-38	RI/FS	C
SITE 6	RANGE I	RI/FS	C
SITE 7	RANGE J	RI/FS	C
SITE 8	RANGE L	RI/FS	C
SITE 9	RANGE K	RI/FS	C
SITE 10	FORMER LANDFILL	RI/FS	C
SITE 11	FORMER LANDFILL	RI/FS	C
SITE 12	FORMER LANDFILL	RI/FS	C
** REDSTONE ARSENAL (ARMY)			
SITE 2	OB/OD AREA	RI/FS	B
SITE 3	LANDFILL	RI/FS	B
SITE 4	OTHER	RI/FS	B
** MAXWELL I.FB (AF)			
SITE FT 01	FPTA 1	RI/FS	B
SITE FT 02	FPTA 2	RI/FS	B
SITE UT 01	UST ADJACENT TO BLDG 1036	RA	C
SITE WP 01	ELECTROPLATING WASTE DISPOSAL	RI/FS	B

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

CALIFORNIA

Site Name	Description	Project	Priority
** RIVERBANK AAP (ARMY)			
SITE 1	IWTP	R/VFS	B
SITE 2	ABANDON LANDFILL	RA	B
** SACRAMENTO AD (ARMY)			
SITE 1	OXIDATION LAGOON	R/RA	A
SITE 2	BURN PIT	RA	A
** SHARPE ARMY DEPOT (ARMY)			
SITE 1	SOUTH BALLOON AREA	R/RA	A
SITE 2	NORTH BALLOON AREA	R/VFS	A
** SIERRA AD (ARMY)			
SITE 1	HONEY LAKE	R/VFS	C
SITE 2	DISPOSAL PIT	R/VFS	C
SITE 3	AMMO WASHOUT LAGOON	RA	C
SITE 4	ABANDON DEMOLITION GROUNDS	R/VFS	C
SITE 5	UNK(INSTALL. WELLS)	R/VFS	C
** CBC PORT HUENEME (NAVY)			
SITE 1	NCEL STOR. YD	R/VFS	B
SITE 12	CED PCB SPILLS	R/VFS	C
SITE 13	MUSE PCB SPILL	R/VFS	C
SITE 14	EARTH MOVING AREA	R/VFS	B
SITE 15	TRANSFORMER STOR.	R/VFS	C
SITE 17	HW MAG.	R/VFS	C
SITE 19	HARBOR AND CANALS	R/VFS	B
SITE 20	PROPOSED NTC BLDG SITE	R/VFS	B
** MCAGCC 29 PALMS (NAVY)			
SITE 1	TRANSFORMER SPILL AREA	R/VFS	C
SITE 11	RUST PROOFING SPILL AREA	R/VFS	C
SITE 18	CRASH TRAINING PIT 18	R/VFS	C
SITE 7	CRASH TRAINING PIT 2	R/VFS	C
SITE 8	CRASH TRAINING PIT 3	R/VFS	C
SITE 10	EVAPORATION PONDS	R/VFS	C
SITE 14	LANDFILL 1	R/VFS	C
SITE 15	LANDFILL 2	R/VFS	B
SITE 16	LANDFILL 3	R/VFS	C
** MCAS EL TORO (NAVY)			
SITE 1	ORONANCE DISPOSAL AREA	R/VFS	B
SITE 2	MAG. RD LANDFILL	R/VFS	B
SITE 3	ORIG. LNDFL	R/VFS	B
SITE 5	PERIMETER RD LNDFL	R/VFS	B
SITE 9	CRASH CREW PIT NOL	R/VFS	C
SITE 11	TRANSFORMER STOR. AREA	R/VFS	C
SITE 14	BATTERY ACID DISP. PIT	R/VFS	C
SITE 16	CRASH CREW PIT NO 2	R/VFS	C
SITE 17	COMM. STATION LNDFL	R/VFS	B
** MCAS TUSTIN (NAVY)			
SITE 1	MOFFETT TRENCHES & CRASH PIT	R/RA	B
SITE 2	DISPOSAL AREA	R/VFS	B
SITE 3	PAINT STRIPPER DISPOSAL AREA 1	R/VFS	G
SITE 5	DRAINAGE NO.1	R/VFS	B
SITE 7	GND ADJACENT TO ARPON	R/VFS	B
SITE 8	DRAINAGE 1	RA	B

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

CALIFORNIA

Site Name	Description	Project	Priority
SITE 9	HANGAR 1	RI/FS	B
SITE 15	BLIMP HANGAR	RI/FS	B
** MCB CAMP PENDLETON (NAVY)			
SITE 3	PEST CONTROL WASHRACK DRAIN	RI/RA	B
SITE 4	MCAF DRAINAGE DITCH	RI/RA	B
SITE 5	FIRE FIGHTING DRILL FIELD	RI/FS	B
SITE 6	DPDO SCRAP YARD	RI/RA	B
** MCLB BARSTOW (NAVY)			
SITE 2	PESTICIDE STOR. & WASHOUT	RI/RA	B
SITE 9	FUEL DISPOSAL AREA	RI/FS	B
SITE 18	SLUDGE WASTE AREA, YERMO	RI/RA	B
SITE 21	IND. WASTE DISPOSAL AREA	RI/RA	B
SITE 33	RIFLE RANGE DISPOSAL AREA	RA	B
** NAB CORONADO (NAVY)			
SITE 2	OLD REFUSE DISP/BURN AREA	RI/FS	C
SITE 4	SANDBLAST GRIT DISP. AREA	RI/FS	B
SITE 6	FIRE FIGHTING TRAINING AREA	RI/FS	C
SITE 8	OILED AREAS	RI/FS	C
** NAS ALAMEDA (NAVY)			
SITE 1	WEST BEACH LANDFILL	RI/FS	B
SITE 2	1943,1956 DISPOSAL ARE	RI/FS	B
SITE 3	SEAPLANE LAGOON	RI/FS	B
SITE 4	AREA 97	RI/FS	B
SITE 5	BLDG 301 AND 389	RI/FS	B
SITE 6	CANS C-2 AREA	RI/FS	B
SITE 7	BLDG 360	RI/FS	C
** NAS LEMOORE (NAVY)			
SITE 1	LANDFILL	RI/FS	B
SITE 2	BLDG 752 PEST. RINSE	RI/FS	C
SITE 3	BLDG 50 PEST RINSE	RI/FS	C
SITE 4	OLD FIRE TRAINING AREA	RI/RA	C
SITE 5	FIRE FIGHTING SCHOOL	RI/FS	C
SITE 6	OPERATION AREA OPEN DITCH	RI/FS	B
SITE 7	HOUSING AREA OPEN DITCH	RI/FS	C
SITE 9	IND. TREATMENT SLUDGE PONDS	RI/RA	C
SITE 11	BLDG 3 TRANSFORMER SPILL	RI/FS	C
SITE 12	BLDG 468 TRANSFORMER SPILL	RI/FS	C
SITE 13	TRANSFORMER STORAGE AREA	RI/FS	C
** NAS MIRAMAR (NAVY)			
SITE 1	FUEL FARM OPERATING AREA	RI/FS	B
SITE 2	ROSE CANYON	RI/FS	B
SITE 3	FISH POND	RI/FS	B
SITE 4	FIRE FIGHTING DRILL FIELDS	RI/FS	C
SITE 5	SAN CLEMENTE CANYON DISPOSAL	RI/FS	B
** NAS MOFFETT FIELD (NAVY)			
SITE 1	RUNWAY LANDFILL	RI/FS	A
SITE 3	MARRIAGE ROAD DITCH	RI/FS	A
SITE 4	IW HOLDING PONDS	RI/FS	A
SITE 5	FUEL FARM FRENCH DRAIN	RI/FS	A
SITE 6	RUNWAY APRON	RI/FS	A
SITE 7	HANGARS 2 AND 3	RI/FS	A

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

CALIFORNIA

Site Name	Description	Project	Priority
SITE 8	WASTE OIL TRANSFER AREA	RI/FS	A
SITE 9	OLD FUEL FARM	RI/FS	A
SITE 10	CHASE PARK AREA	RI/FS	A
** NAS NORTH ISLAND (NAVY)			
SITE -	SHORELINE SEDIMENTS	RI/FS	C
SITE -	GOLF COURSE GARAGE DISP	RI/FS	C
SITE -	HERITAGE PARK PW YARD	RI/FS	C
SITE 9	CHEM. WASTE DISPOSAL AREA	RI/FS	C
SITE 10	PROPERTY DISPOSAL AREA	RI/FS	C
** NCS STOCKTON (NAVY)			
SITE 1	LANDFILL	RI/FS	B
SITE 2	FIRE FIGHTING TRAINING GROUND	RI/FS	B
SITE 3	BATTERY ACID DISP. AREA	RI/FS	B
SITE 4	GSA AREA	RI/FS	B
** NSB SAN DIEGO (NAVY)			
SITE 3	NSC-PLA OIL DISP PITS	RI/FS	C
SITE 4	NSC-PLA TANK BOTTOMS	RI/FS	C
SITE 5	NOSC N. COAST DISP	RI/FS	C
SITE 9	NOSC BLDG A34 PLATING WASTE	RI/FS	B
SITE 10	NOSC SLUDGE DISP	RI/FS	C
SITE 13	DRUM DISPOSAL AREA	RI/FS	C
SITE 16	DEGAUSSING RUBBLE DISP.	RI/FS	C
** NSY HUNTER'S POINT (NAVY)			
SITE 1	OIL RECLAMATION PONDS	RI/FS	B
SITE 3	IND. LANDFILL	RI/FS	B
SITE 5	SCRAP YD	RI/FS	B
SITE 6	OLD TRANSFORMER STORAGE YD	RI/FS	C
SITE 7	BLDG 521 POWER PLANT	RI/RA	B
SITE 8	PICKLING AND PLATE YD	RI/FS	B
SITE 9	BAY FILL	RA	B
SITE 11	BATTERY AND PLATING SHOP	RI/FS	B
** NSY MARE ISLAND (NAVY)			
SITE -	LEAD OXIDE AREAS	RI/FS	B
SITE 1	LANDFILL	RI/FS	B
SITE 2	OIL SUMPS	RI/RA	B
SITE 4	BERTHS 4 AND 5	RI/RA	B
SITE 5	900 AREA	RI/RA	B
SITE 6	BLDG 505	RA	B
SITE 7	BLDG 629 BATTERY STORAGE	RA	B
SITE 12	CONCORD ANNEX	RI/RA	B
SITE 13	MARE ISLAND STRAIT	RA	B
SITE 14	SLUDGE PONDS	RI/RA	B
** NTC SAN DIEGO (NAVY)			
SITE 1	REFUSE DISP.	RI/FS	B
SITE 2	BLDG 227 UNDERGROUND TANK	RI/FS	C
SITE 3	EXCHANGE GAS STATION	RI/FS	B
SITE 4	OLD MTR POOL AND BLDG 3 UNDERGROUND TANK	RI/FS	B
SITE 5	BLDG 352 UNDERGROUND TANK	RI/FS	C
** NWC CHINA LAKE (NAVY)			
SITE -	MINIDECK	RI/FS	B
SITE -	ARMITAGE FIELD	RI/FS	B

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

CALIFORNIA

Site Name	Description	Project	Priority
SITE 3	ARMITAGE FIELD LEACH POND	RI/RA	C
SITE 7	MICHELSON LAB DRAINAGE	RI/RA	C
SITE 12	SHORT RD LNDFL	RI/RA	C
SITE 12	SHORT ROAD LNDFL	RI/RA	C
SITE 13	OILY WASTE DISP. AREA	RI/RA	C
SITE 14	ER RANGE SEPTIC SYS	RI/RA	C
SITE 15	R RANGE SEPTIC SYS	RI/FS	C
SITE 16	G-1 RANGE SEPTIC SYS	RI/FS	C
SITE 17	G-2 RANGE SEPTIC SYS	RI/FS	C
SITE 22	PILOT PLANT RD.	RI/FS	C
SITE 27	NAF DISP. AREA	RI/FS	C
SITE 29	G1 EAST DISP. AREA	RI/FS	B
SITE 31	PW PESTICIDE RINSE AREA	RI/FS	C
SITE 32	GOLF COURSE PESTICIDE RINSE	RI/FS	C
SITE 34	LAURITSEN ROAD LANDFILL	RI/RA	C
** NWS CONCORD (NAVY)			
SITE 1	TIDAL AREA LANDFILL	RI/FS	B
SITE 2	R AREA DISPOSAL SITE	RI/FS	B
SITE 3	KELN SITE	RI/FS	B
SITE 4	ALLIED SITE A	RI/FS	B
SITE 5	ALLIED SITE B	RI/FS	B
SITE 6	COKE PILE SITE	RI/FS	B
SITE 9	FROID AND TAYLOR RD DISPOSAL	RI/FS	B
SITE 11	WOOD HOGGER	RI/FS	B
SITE 13	BURNING AREA	RI/FS	B
SITE 14	KENNER BLVD WELLS	RI/FS	B
SITE 16	BLACK PIT AT RED ROCK	RI/FS	B
SITE 25	K-2 AREA	RI/FS	B
SITE 26	G-1 AREA	RI/FS	B
** NWS SEAL BEACH (NAVY)			
SITE 1	WW SETTLING POND	RI/FS	B
SITE 2	OIL ON ROADS	RI/FS	B
SITE 2	EVAP. POND	RI/FS	B
SITE 6	EXPLOSIVES BURNING GROUND	RI/FS	B
SITE 7	STATION LANDFILL	RI/FS	B
SITE 8	BATTERY SHOP DRAINAGE	RI/FS	B
SITE 19	BLDG 241 DISP. PIT	RI/FS	C
SITE 22	OIL ISLAND	RI/FS	B
SITE 24	BLDG 437 QUENCH WATER DISPOSAL	RI/FS	B
** PMTC POINT MUGU (NAVY)			
SITE 1	LAGOON LANDFILL	RI/FS	B
SITE 2	OLD SHOPS AREA	RI/FS	B
SITE 3	FUEL FARM	RI/FS	B
SITE 4	PUBLIC WORKS STOR YARD	RI/FS	B
SITE 5	OLD "6 AREA" SHOPS	RI/FS	B
SITE 6	BLDG 311 YARD	RI/FS	B
SITE 7	ELECTRIC SUBSTATION 680	RI/FS	B
SITE 9	MAIN BASE FIRE SCHOOL	RI/FS	B
SITE 11	LAGOON AND DRAINAGE DITCHES	RI/FS	B

02/27/67

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

CALIFORNIA

Site Name	Description	Project	Priority
** AFP NO.42, PALMDALE (AF)			
SITE 1-1	ENGINE RUN-UP AREA	RI	C
SITE 2-1	PAINT WASTE DISP. DITCH	RI/FS	A
SITE 2-2	PAINT WASTE DISPOSAL AREA	RI	C
SITE 2-3	PAINT WASTE DISPOSAL AREA	RI	C
SITE 2-4	ABANDONED DISPOSAL AREA	RI	C
SITE 2-5	DISPOSAL AREA	RI	C
SITE 2-6	DISPOSAL AREA	RI	C
SITE 2-7	ENGINE RUN-UP AREA	RI/FS	B
SITE 2-8	ENGINE RUN-UP AREA	RI	C
SITE 2-9	FUEL CONTAMINATED DITCH	RI/FS	A
SITE 3-1	ENGINE RUN-UP AREA	RI	C
SITE 3-2	EVAPORATION PONDS	RI	C
SITE 4-1	FUEL TRANSFER AREA	RI	C
SITE 5-1	ENGINE RUN-UP AEA	RI/FS	B
SITE 5-2	FUEL DISPOSAL AREA	RI	C
SITE 6-1	ENGINE RUN-UP AREA	RI	C
SITE 7-1	VEHICLE WASHRACK AND LUST	RI/FS	B
SITE 7-2	FDTA (ORIGINAL)	RI/FS	B
SITE C-1	FDTA (ABANDON)	RI/FS	B
SITE C-2	NEW FDTA	RI	C
SITE C-3	LANDFILL	RI	C
SITE 2-10	DISPOSAL AREA	RI	C
SITE 2-11	NOISE LEVEL AREA	RI	C
SITE 2-12	TEB DISPOSAL AREA	RI	C
** AFP NO.70, FOLSOM (AF)			
SITE 01	DRUM STORAGE AREA	PA/SI	C
** BEALE AFB (AF)			
SITE 01	DISCHARGE AREA 1	RI	A
SITE 02	PHOTO WWTP	RI	B
SITE 03	PHOTO WASTE INJ. WELL	RI	B
SITE 04	FPTA 1&2	RI/PA	B
SITE 04	FPTA NO. 1 & 2	RA	B
SITE 05	BATTERY SHOP DRY WELL	RI	B
SITE 06	DISCHARGE AREA 3	RI	C
SITE 07	LANDFILL 2	RI	C
SITE 08	DISCHARGE AREA 4	RI	C
SITE 09	DISCHARGE AREA 6	RI	C
SITE 10	DISCHARGE AREA 9	RI	C
SITE 11	DISCHARGE AREA 5	RI	C
SITE 12	DISCHARGE AREA 7	RI	C
SITE 13	DISCHARGE AREA 10	RI	C
SITE 14	LANDFILL 1	RI	B
SITE 15	DISCHARGE AREA 8	RI	C
SITE 16	LANDFILL 3	RI	C
SITE DS 01	BEST SLOUGH	RI	C
SITE LU 01	POL TANK FARM	RI/RD	C
SITE OT 01	ORDINANCE DISPOSAL	RI	C
** CASTLE AFB (AF)			
SITE FT 01	FPTA 1	RD	B
SITE LF 01	LANDFILL 1	RA	A

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

CALIFORNIA

Site Name	Description	Project	Priority
SITE SS 01	FUEL SPILL 1	RD	B
SITE SS 02	FUEL SPILL 4	RD	B
SITE SS 03	FUEL SPILL 2&3	RD	C
SITE TCE 5	TCE SITE 5	RD	A
SITE TCE 7	TCE SITE 7	RD	A
** EDWARDS AFB (AF)			
SITE 01	DEFERRED FY86 FTA CLEAN-UP	RA	B
SITE 17	BLDG 1404 LEAKING FUEL TANKS	RA/RD	C
SITE 19	BLDG 1928	RD	C
** GEORGE AFB (AF)			
SITE B 08	PEST. AND PAINT BURIAL	RA/RD	C
SITE B 09	ACID AND OIL BURIAL	RA/RD	C
SITE B 10	PEST. AND OIL BURIAL	RA/RD	C
SITE L 01	BASE LANDFILL	FS	C
SITE L 02	DISPOSAL SITE	FS	C
SITE L 03	RADIOACTIVE/TOXIC DISPOSAL	FS	C
SITE L 04	STARTER CARTRIDGE DISPOSAL ARE	FS	C
SITE L 11	STREET SWEEPING DIS.	RA/RD	C
SITE L 12	ORIGINAL BASE LANDFILL	RA/RD	C
SITE L 13	BASE LANDFILL	RA/RD	C
SITE M 02	M-2 MUNITIONS DISP.	RD	C
SITE S 20	IND. OUTFALL DITCH 6	RA/RD	B
** LOS ANGELES AFS (AF)			
SITE SS 01	FUEL SPILL SITE	RA/RD	B
** MARCH AFB (AF)			
SITE 01	LANDFILL 1	RI	C
SITE 02	LANDFILL 2	RI	C
SITE 03	LANDFILL 3	RI	B
SITE 04	TCE CONTAMINATION	RI	B
SITE 05	TCE CONTAMINATION	RI	B
SITE 06	LANDFILL 6	RI	B
SITE 07	LANDFILL 7	RI	C
SITE 08	FPTA 1	RI	C
SITE 09	FPTA 2	RI	B
SITE 10	FPTA 3	RI	C
SITE 12	E. SLUDGE DRYING BEDS	RI	C
SITE 13	W. SLUDGE DRYING BEDS	RI	C
SITE 14	EFFLUENT POND	RI	C
SITE 15	CONDURE EFFLUENT POND	RI	C
SITE 17	SWIMMING POOL FILL	RI	C
SITE 18	AIRCRAFT ISO. AREA	RI	B
SITE 19	LIQ. FUEL PUMP STATION OVERFLOW	RI	C
SITE 20	TANK TRUCK SPILL	RI	C
SITE 21	BULK FUEL STOR.	RI	B
SITE 22	WASTE OIL PIT	RI	B
SITE 23	ENGINE TEST CELL	RI	C
SITE 24	MAIN OIL/WATER SEPERATION	RI	B
SITE 25	FLIGHTLINE DRAINAGE	RI	B
SITE 26	FLIGHT LINE SHOP	RI	B
SITE 27	CE STOR YO	RI	B
SITE 29	UNCONFIRMED SOLVENT DISPOSAL	RI	C

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

CALIFORNIA

Site Name	Description	Project	Priority
SITE 30	LF-5, SITE #3	RI	C
SITE 31	TCE CONTAM.	RI/FS	C
SITE LU 01	BLDG 422 POL TANKS	RI	C
SITE OT 01	MUNITIONS RESIDENCE BURIAL	RI	C
SITE OT 02	ZONE 1 MONITORING	RI	C
SITE WP 01	WTP SLUDGE	RI	C
** MATHER AFB (AF)			
SITE NPL-12	ACW SITE NPL-12	FS	A
** NORTON AFB (AF)			
SITE 01	BURNING LAGOON SITE 17	RA	C
SITE DS 01	WASTE DRUM STORAGE 3	RA	C
** TRAVIS AFB (AF)			
SITE FT 01	FPTA 1	RI	B
SITE FT 02	FPTA 2	RI	B
SITE FT 03	FPTA 3	RI	B
SITE FT 04	FPTA 4	RI	B
SITE LF 01	LANDFILL 1	RI	B
SITE LF 02	LANDFILL 2	RI	B
SITE LF 03	LANDFILL 3	RI	B
SITE OT 01	DISPOSAL SITE 1	RI	B
SITE OT 02	DISPOSAL SITE 3	RI	B
SITE OT 03	STP SLUDGE DISPOSAL	RI	B
SITE SS 01	JP-4 SPILL	RI	B
SITE SS 02	OLD SPILLAGE	RI	B
SITE SS 03	SOLVENT SPILL	RI	B
SITE SS 04	OIL SPILL	RI	B
SITE WP 01	STP INACTIVE OXIDATION POND	RI	B
** VANDENBERG AFB (AF)			
SITE LF 03	LANDFILL 2	RD	B
** DDTC TRACY (DEFENSE LOGISTICS AGENCY)			
SITE 23	FORMER LANDFILLS	RI/FS	A
** DFSP NORWALK (DEFENSE LOGISTICS AGENCY)			
SITE 1	TANK FARM	RA	A
** DFSP OZOL (DEFENSE LOGISTICS AGENCY)			
SITE 1	TANK FARM	RI/FS	A
** DFSP SAN PEDRO (DEFENSE LOGISTICS AGENCY)			
SITE 1	TANK FARM	RI/FS	A
SITE 2	WHARF	RI/FS	A

COLORADO

Site Name	Description	Project	Priority
** ROCKY MOUNTAIN ARSENAL (ARMY)			
	BASIN F	RI/FS	A
	BASIN F REMOVAL ACTION	RI/FS	A
	PILOT DEMO TO DECON SOIL	RI/FS	A
	RIFS ON ALL SITES	RI/FS	A
** AFP PJKS WATERTON (AF)			
SITE 01	T-8A CONTAMINATION POND	RI/FS	A
SITE 03	EPL BLDG T-6 AND T-20A	RI/FS	A

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

COLORADO

Site Name	Description	Project	Priority
SITE 04	HYDRAZINE SPILL, TANK T-31	RI/FS	A
SITE 05	D-1 LANDFILL	RI/FS	A
SITE 06	DEISEL TANK T-23	RI/FS	A
SITE 07	TEST FAC. STORAGE	RI/FS	A
SITE 08	NO. 6 DIESEL FUEL BELOW D-1	RI/FS	A
SITE 09	DRAINAGE FLUMES	RI/FS	A
SITE OT 01	EPL TEST CELLS, VALVE SHOP STOR. AREA	RI/FS	A
** USAF ACADEMY (AF)			
SITE FT 01	FDTA	RI	C
SITE LF 01	LANDFILL-FARRISH	RI	B
SITE LF 02	LANDFILL 1	RI	C
SITE LF 03	LANDFILL 2	RI	C
SITE OT 01	FIRING RANGE	RI	C
SITE OT 02	WW II DISP. SITE	RI	C
SITE SS 01	JP-4 SPILL	RI	B
SITE WP 01	DIGESTED SLUDGE DISP. SITE	RI	C
SITE WP 02	DREDGE DISPOSAL SITE-FARRISH	RI	B
SITE WP 03	DREDGED MAT. DISP. SITE	RI	C

CONNECTICUT

Site Name	Description	Project	Priority
** NSB NEW LONDON (NAVY)			
SITE .	OBDA NE	RI/FS	B
SITE 2	AREA A LNDFL	RI/FS	B
SITE 3	OVER-BANK DISPOSAL AREA	RI/FS	B
SITE 6	OPDO AREA	RI/FS	B

DISTRICT OF COLUMBIA

Site Name	Description	Project	Priority
** BOLLING AFB (AF)			
SITE 01	FPTA	RI	C
SITE 02	HEATING PLANT OIL LEAK	RI	B
SITE LF 01	LANDFILL 1	RI	B

DELAWARE

Site Name	Description	Project	Priority
** DOVER AFB (AF)			
SITE 01	LANDFILL 5	RI	B
SITE D-4	LIQUID WASTE DISPOSAL	RI/FS	A
SITE D-5	SANITARY LANDFILL	RI	A
SITE S-1	HAZARDOUS WASTE STORAGE AREA	RI	A
SITE T-1	INDUSTRIAL WASTE LAGOON	RI/FS	A
SITE XYZ	MAIN FUEL PUMPING MANHOLES	RI	A
SITE D 02	CONSTRUCTION RUBBLE	RI	A
SITE D-04	LIQUID WASTE DISPOSAL	RD	A

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

DELAWARE

Site Name	Description	Project	Priority
SITE D-10	SANITARY LANDFILL	RI	A
SITE DD-1	NORTH DRAINAGE DITCH	RI/FS	A
SITE FT-1	FPTA 1	RI	A
SITE FT-2	FIRE TRAINING AREA	RI	A
SITE FT-3	FPTA 3	RI	A
SITE SP-4	JP-4 PIPELINE LEAK	RI	A
SITE T-01	RAP PROCESS, IND. WASTE LAGOON	RD	A
SITE DD-01	RAP PROCESS, N. DRAINAGE DITCH	RD	A
SITE SP 03	SPILL SITE	RI	B
SITE SP-09	RAP PROCESS	RD	A

FLORIDA

Site Name	Description	Project	Priority
** NAS CECIL FIELD (NAVY)			
SITE 1	OLD LANDFILL	RI/FS	B
SITE 2	RECENT LNDFL	RI/FS	B
SITE 3	OIL SLUDGE PIT	RI/FS	B
SITE 4	GREASE PITS	RI/FS	B
SITE 5	OIL DISP. AREA NW	RI/FS	B
SITE 7	OLD FIRE FIGHTING TRAINING AREA	RI/FS	B
SITE 8	HW/FIRE FIGHTING TRAINING AREA	RI/FS	B
SITE 11	PESTICIDE DISP.	RI/FS	B
SITE 16	AIMD SEEPAGE PIT	RI/RA	B
SITE 17	OIL SLUDGE DISP. PIT SW	RI/FS	B
** NAS JACKSONVILLE (NAVY)			
SITE 7	JP-4 EXPLOSION FUEL FARM	RA	B
SITE 11	HANGAR BUILDING 101	RA	B
SITE 12	OLD TEST CELL BLDG	RA	B
SITE 14	BATTERY SHOP	RA	B
SITE 15	SOLVENT AND PAINT SLUDGE	RA	B
SITE 16	STORM SEWER DISCHARGE BLACK POINT	RA	B
SITE 25	BLDG 2038	RA	B
SITE 26	OLD MAIN REGISTERED DISPOSAL AREA	RA	B
SITE 27	PCB STORAGE	RA	B
** NAS KEY WEST (NAVY)			
SITE .	NORTH LANDFILL	RI/FS	B
SITE .	SOUTH LNDFL	RI/FS	B
SITE .	TANK FARM	RI/FS	B
SITE .	FIRE FIGHTING TRAINING AREA	RI/FS	B
SITE 1	TRUMAN ANNEX DISP AREA	RI/FS	C
SITE 2	TRANSFORMER OIL DISP AREA	RI/FS	B
SITE 3	TRUMAN ANNEX DDT MIXING AREA	RI/FS	C
SITE 4	BOCA CHICA OPEN DISP AREA	RI/FS	C
SITE 5	BOCA CHICA DDT MIXING AREA	RI/FS	C
** NAS PENSACOLA (NAVY)			
SITE 1	SAN. LNDFL	RI/RA	B
SITE 2	WATERFRONT SEDIMENTS	RI/FS	B
SITE 3	CRASH CREW TRAINING AREA	RI/FS	B
SITE 9	NAVY YARD DISPOSAL AREA	RI/FS	B

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

FLORIDA

Site Name	Site No.	Description	Project	Priority
SITE	11	N. CHEVALIER FIELD DISPOSAL	RI/FS	B
SITE	15	PESTICIDE RINGEATE AREA	RI/RA	B
SITE	17	TRANSFORMER STOR.	RI/FS	B
SITE	19	FUEL FARM PIPELINE LEAK	RI/RA	B
SITE	21	SLUDGE DISPOSAL AT FUEL TANK	RI/FS	B
SITE	22	RFUELER REPAIR SHOP FUEL DISPOSAL	RI/FS	B
SITE	23	CHEVALIER FIELD PIPELINE LEAK	RI/FS	B
SITE	26	SUP DEPT OUTSIDE STOR	RI/FS	B
SITE	27	RADIUM DIAL SHOP SEWER	RI/FS	B
SITE	29	SOIL S. OF BLDG 3460	RI/FS	B
SITE	30	BLDG 649/755	RI/FS	B
SITE	31	BLDG 648	RI/FS	B
SITE	32	IND. SLUDGE DRYING BEDS	RI/FS	B
SITE	33	WWTP PONDS	RI/FS	B
SITE	34	BLDG 3557	RI/RA	B
** NAS WHITING FIELD (NAVY)				
SITE	1	NW DISPOSAL AREA	RI/FS	B
SITE	3	UNDERGROUND WASTE SOLVENT STOR AREA	RI/FS	B
SITE	4	NORTH AVGAS TANK SLUDGE DISPOSAL AREA	RI/FS	B
SITE	5	BATTERY ACID SEEPAGE PIT	RI/FS	B
SITE	6	S. TRANSFORMER OIL DISPOSAL AREA	RI/FS	B
SITE	7	S. AVGAS TANK SLUDGE DISPOSAL AREA	RI/FS	B
SITE	8	AVGAS FUEL SPILL AREA	RI/FS	B
SITE	9	WASTE FUEL DISPOSAL AREA	RI/FS	B
SITE	10	SE OPEN DISPOSAL AREA A	RI/FS	B
SITE	11	SE OPEN DISPOSAL AREA B	RI/FS	B
SITE	12	TETRAETHYL LEAD DISPOSAL AREA	RI/FS	B
SITE	13	LANDFILL	RI/FS	B
SITE	14	SHORT TERM SANITARY LANDFILL	RI/FS	B
SITE	15	SW LANDFILL	RI/FS	B
SITE	16	OPEN DISPOSAL AND BURNING AREA	RI/FS	B
** NCSC PANAMA CITY (NAVY)				
SITE	1	ORIG. BURN SITE	RI/FS	B
SITE	2	BURN AND LNDFL AREA	RI/FS	B
SITE	3	OLD FIRE TRAINING AREA	RI/FS	B
SITE	4	UNDERGROUND OIL CONTAINER AREA	RI/FS	B
SITE	5	PAINT EQUIP. CLEANING AREA	RI/FS	B
SITE	6	BURN DISPOSAL AREA	RI/FS	B
SITE	8	SOLVENT DISP BEHIND B40	RI/FS	B
** NS MAYPORT (NAVY)				
SITE	1	LANDFILL A	RI/FS	B
SITE	2	LNDFL B	RI/FS	B
SITE	4	LNDFL D	RI/FS	C
SITE	5	LNDFL E	RI/FS	C
SITE	6	LNDFL F	RI/FS	C
SITE	8	WASTE OIL PIT	RI/FS	B
SITE	9	FUEL SPILL AREA	RI/FS	B
SITE	14	MERC./OILY WASTE SPILL	RI/FS	B
** NYC ORLANDO (NAVY)				
SITE	1	NORTH FIELD LNDFL	RI/FS	B
SITE	3	MCCOY LNDFL	RI/FS	B

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

FLORIDA

Site Name	Description	Project	Priority
SITE 6	DPDO MCCOY ANNEX	RI/FS	B
SITE 8	NTC PESTICIDE BLDG	RI/FS	B
SITE 9	LAKE BALDWIN	RI/FS	B
** EGLIN AFB (AF)			
SITE OT 01	HERD FACILITY	RA	C
** HOMESTEAD AFB (AF)			
SITE SP-4	LEAK AT POL STORAGE TANK FARM	RI	D
SITE SP-5	PUMP STATION 9 ON FLIGHT LINE	RA	B
SITE SP-6	MOGAS LEAK BX STATION	RI	B
** MACDILL AFB (AF)			
SITE A	FORMER FUEL STORAGE AREA	FS/RO	C
** PATRICK AFB (AF)			
SITE 03	CHEMICAL DISPOSAL SITE	RA	C
SITE LF 01	LANDFILL 1	RA	B
** TYNGALL AFB (AF)			
SITE 06	SEWAGE PLANT LANDFILL	RA/RO	B
SITE 07	SPRAY FIELD LANDFILL	HA/RO	B

GEORGIA

Site Name	Description	Project	Priority
** FORT BENNING (ARMY)			
SITE 1	CLOSED LANDFILL 1	RI/FS	C
SITE 2	CLOSED LANDFILL 2	RI/FS	C
SITE 3	CLOSED LANDFILL 3	RI/FS	C
SITE 4	CLOSED LANDFILL 4	RI/FS	C
SITE 5	CLOSED LANDFILL 5	RI/FS	C
SITE 6	CLOSED LANDFILL 6	RI/FS	C
** MCLB ALBANY (NAVY)			
SITE	PENTACHLOROPHENOL DIP TANK	RI/FS	B
SITE	CLEANING TANK BLDG 572	RI/FS	B
SITE 2	RUBBLE DISPOSAL AREA	RI/FS	B
SITE 3	LONG-TERM LNDFL	RI/FS	B
SITE 5	W. DISPOSAL AREA	RI/FS	B
SITE 6	IND. DISCHARGE DRAINAGE DITCH	RI/FS	B
** DOBBINS AFB (AF)			
SITE 01	LANDFILL	FS	B
SITE 02	FOTA, PAST	FS	B
SITE 03	FOTA PRESENT	FS	C
SITE 04	BIG LAKE	FS	B
SITE 06	AVGAS SLUDGE BURIAL	FS	C
SITE 08	LEADED PAINT BURIAL	FS	C
** ROBINS AFB (AF)			
SITE 01	FTA 4	RI	A
SITE 02	PCB SPILL	RI	A
SITE 03	WATER WELLS	RI	A
SITE FT 01	FTA 1	RI	A
SITE FT 02	FTA 2	RI	A
SITE FT 03	FTA 3	RI/FS	A
SITE LF 01	LANDFILL 1	RI	A

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

GEORGIA

Site Name	Description	Project	Priority
SITE LF 02	LANDFILL 2	RI	A
SITE LF 03	LANDFILL 3	RI	A
SITE LF 04	LANDFILL 4	RI	A
SITE RW 01	RADIOACTIVE WASTE DISPOSAL SITE	RI/FS	A
SITE WP 01	HAZ WASTE DISPOSAL SITE	RI	A
SITE WP 02	LABORATORY CHEM. BURIAL	RI	A
SITE WP 03	SLUDGE LAGOON	RI	A

GUAM

Site Name	Description	Project	Priority
** NAS AGANA (NAVY)			
SITE 1	SANITARY LANDFILL	RI/FS	C
SITE 2	DRAIN BASIN HOLD PIT	RI/FS	C
SITE 3	NAVMAG-EOD FORMER DEMO RANGE	RI/FS	B
SITE 8	FINEGAYAN LANDFILL 1	RI/FS	C
SITE 9	FINEGAYAN LANDFILL 2	RI/FS	C
** PWC GUAM (NAVY)			
SITE 16	PCB TRANSFORMER FILTER AREA	RI/RA	B
** ANDERSEN AFB (AF)			
SITE 05	RMW CENTRAL SOIL	RD	C
SITE DS 02	DRUM STORAGE AREA	RA/RD	C

HAWAII

Site Name	Description	Project	Priority
** MCAS KANEHOE (NAVY)			
SITE 1	M-3 LANDFILL	RI/RA	B
** NAS BARBERS POINT (NAVY)			
SITE 1	CORAL SEA RD CORAL PIT	RI/FS	B
SITE 2	ORDY POND	RI/FS	B
SITE 3	SANITARY LANDFILL	RI/FS	B
** NSY PEARL HARBOR (NAVY)			
SITE	PCB EXPLOSION CONTAM	RA	B
SITE 4	PEARL CITY PENINSULA LANDFILL	RI/FS	B
SITE 7	TRANSFORMER STATION 0-4	RI/FS	B
SITE 22	OIL WASTE DISPOSAL PIT	RI/FS	B
** BELLOWS AFB (AF)			
SITE LF 01	LANDFILL	RI	B
SITE LF 02	LANDFILL W/ W II SHOP AREA	RI	C
SITE OT 01	SHOP AREA SEPTIC TANK	RI	C
** MCKAM AFB (AF)			
SITE 01	MCKAM SITE 1	RI	C
SITE 05	TRU SERVICES LANDFILL	RI/RD	B
SITE 07	MCKAM SITE 7	RI/RD	B
SITE 09	FUEL LEAK	RI	C
SITE 10	FUEL LEAK	RI	C
SITE 11	FUEL LEAK	RI	C
SITE 12	FUEL LEAK	RI	C

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

HAWAII

Site Name	Description	Project	Priority
SITE 13	HICKAM SITE 13	R/IRD	B
SITE 14	HICKAM SITE 14	R/IRD	B
SITE 15	HICKAM SITE 15	R/IRD	B
SITE 16	FUEL LEAK	RI	C
SITE 17	FUEL LEAK	RI	C
SITE 18	FUEL LEAK	RI	C
SITE 19	HICKAM SITE 19	R/IRD	B
SITE 21	CANAL STORM DRAINAGE SYSTEM	RI	C
SITE 22	KUMUNAU CANAL STORM DRAIN SYSTEM	RI	C
SITE 23	MTR POOL STORM DRAIN SYS	RI	C
** WHEELER AFB (AF)			
SITE 01	CLEAN-UP	RI/FIS	C
SITE 02	CLEAN-UP	RI/FIS	C
SITE 03	CLEAN-UP	RI/FIS	B
SITE 04	CLEAN-UP	RI/FIS	B
SITE 05	AIRCRAFT PARKING /WASH RACK	RI	C
SITE 06	AIRCRAFT PARKING	RI	C
SITE 07	SANITARY SEWER SYSTEM	RI/FIS	C

IOWA

Site Name	Description	Project	Priority
** IOWA AAP (ARMY)			
SITE 1	PINK WATER LAGOON	RA	B
SITE 2	FORMER LINE 1 IMPOUNDMENT	RA	B
SITE 3	INERT LANDFILL	RI/FIS	B

IDAH0

Site Name	Description	Project	Priority
** GOWEN FIELD (BOISE) (AF)			
SITE 95	SITES 1,2,5,6	RI/FIS	C

ILLINOIS

Site Name	Description	Project	Priority
** JOLIET AAP (ARMY)			
SITE 1	MANUFACTURING AREA	RI/FIS	A
** SAVANNA ADA (ARMY)			
SITE 1	WASHOUT LAGOON IMPOUNDMENT	RA	A
SITE 2	WASHOUT LAGOON IMPOUNDMENT	RA	A
SITE 3	WASHOUT LAGOON IMPOUNDMENT	RA	A
SITE 4	WASHOUT LAGOON IMPOUNDMENT	RA	A
SITE 5	WASHOUT LAGOON IMPOUNDMENT	RA	A
SITE 6	WASHOUT LAGOON IMPOUNDMENT	RA	A
** NYC GREAT LAKES (NAVY)			
SITE 1	GOLF COURSE LNDFL	RI/FIS	C
SITE 4	FIRE FIGHTING TRAINING AREA	RI/FIS	C

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

ILLINOIS

Site Name	Descriptions	Project	Priority
SITE 5	TRANSFORMER STOR. "BONEYARD"	RI/FS	C
SITE 6	MAINSIDE TRANSFORMER STOR.	RV/RA	C
SITE 7	RTC SILK SCREENING SHOP	RI/FS	B
SITE 8	EXCHANGE SERVICE STATION	RI/FS	B
SITE 12	HARBOR DREDGE SPOIL AREA	RI/FS	B
** O'HARE AIR RESERVE (AF)			
SITE 01	LANDFILL 1	FS	B
SITE 02	JP-4 TANK WEST POL AREA	FS	B
SITE 03	FIRE PROTECTION TRAINING AREA	FS	B
SITE 04	LANDFILL 2	FS	B
SITE RW 01	LOW LEVEL RADIOACTIVE DISPOSAL SITE	FS	C
** SCOTT AFB (AF)			
SITE FT 01	FPTA 1	RI	B
SITE FT 02	FPTA 2	RI	B
SITE FT 03	FPTA 3	RI	B
SITE LF 01	LANDFILL	RI	B
SITE SS 01	FACILITY 1965 SPILL SITE	RI	B
SITE SS 02	FACILITY 8550 SPILL SITE	RI	B
SITE WP 01	SLUDGE LAGOON	RI	B

INDIANA

Site Name	Description	Project	Priority
** NEWPORT AAP (ARMY)			
SITE 1	BURNING GROUND	RI/FS	C
SITE 2	RED WATER ASH LAGOONS (3)	RI/FS	C
SITE 3	GYPSUM SLUDGE BASINS	RI/FS	C
SITE 4	RETENTION POND	RI/FS	C
** NWSC CRANE (NAVY)			
SITE 1	BATTERY SHOP	RI/FS	B
SITE 2	MCCORMISH GROGE	RI/FS	C
SITE 3	BURNING PIT	RI/FS	B
SITE 5	PESTICIDE SHOP B-2189	RI/FS	C
SITE 6	ROADS AND GROUNDS AREA	RI/FS	C
SITE 9	DEMOLITION AREA	RI/FS	B
SITE 10	ORDNANCE BURNING GROUNDS	RI/FS	B
SITE 11	CHEM. BURIAL GROUNDS	RI/FS	B
SITE 12	DYE BURIAL GROUNDS	RI/FS	B
SITE 13	LOAD AND FILL AREA	RI/FS	B
SITE 14	MINE FILL A AND B	RI/FS	C
SITE 15	ROCKEYE	RI/FS	C
SITE 16	CAST HIGH EXPLOSIVES FILL	RI/FS	B
SITE 17	LOAD AND FILL POND	RI/FS	B
** GRISCOM AFB (AF)			
SITE 30	PH II STUDIES	RI	C
SITE FY 01	FTA 1	RI	C
SITE FY 02	FTA 2	RI	C
SITE LF 01	LANDFILL 1	RI	C
SITE LF 02	LANDFILL 2	RI	C
SITE LF 03	LANDFILL 3	RI	B

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

INDIANA

Site Name	Description	Project	Priority
SITE OT 01	SLUDGE WEATHERING SITE	RI	C
SITE OT 02	WASTE OIL STORAGE PAD	RI	C

KANSAS

Site Name	Description	Project	Priority
** KANSAS AAP (ARMY)			
SITE 1	LAP DEMOLITION AND LANDFILL	RI/FS	C
** SUNFLOWER AAP (ARMY)			
SITE 1	RR CLASS YARD	RI/FS	C
SITE 2	POND A	RI/FS	C
SITE 3	POND B	RI/FS	C
SITE 4	PYOTT'S POND	RI/FS	C
SITE 5	STATIC ROCKET TEST AREA	RI/FS	C
SITE 6	CANNON RANGE	RI/FS	C
SITE 7	CHROMATE AREA	RI/FS	C
SITE 8	LANDFILL	RI/FS	C
SITE 9	OLD EXPLOSIVE BURN AREA	RI/FS	C
SITE 10	LEAD RECOVERY AREA	RI/FS	C
SITE 11	CONTAM MATER BURNING GROUNDS	RI/FS	C
SITE 12	F-LINE,PASTE AREA, N-PONDS	RI/FS	C
SITE 13	CAPTAIN CREEK	RI/FS	C
SITE 14	KILL CREEK	RI/FS	C
SITE 15	SPOOL CREEK	RI/FS	C
** FORBES FIELD (AF)			
SITE 03	MULTISITES	RI/FS	B
SITE 04	REFUELING HYDRANT 1	RI	B
SITE 05	REFUELING HYDRANT 2	RI/FS	B
** MCCONNELL AFB (AF)			
SITE 01	SPILL 1	RI	B
SITE 02	SPILL 1 SITE 2	RI	C
SITE 03	SPILL SITE 3	RI	C
SITE 04	SPILL SITE 4	RI	C
SITE 3-2	MISSILE SITE	RI	C
SITE FT 01	FIRE TRAINING PIT 2	RI	B
SITE FT 02	FIRE TRAINING PIT 3	RI	B
SITE FT 03	FIRE TRAINING PITS 1&5	RI	B
SITE LF 01	HQ DISPOSAL SITE	RI	B
SITE LF 02	LANDFILL 1	RI	B
SITE LF 03	LANDFILL 2	RI	B
SITE RW 01	RADIOACTIVE WASTE SITE	RI	C

KENTUCKY

Site Name	Description	Project	Priority
** FORT CAMPBELL (ARMY)			
SITE 1	CAMPBELL AIR FIELD	RI/FS	C

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

KENTUCKY

Site Name	Description	Project	Priority
** NOS LOUISVILLE (NAVY)			
SITE 4	NW CORNER LIQUID DISP. AREA	RI/FS	C

LOUISIANA

Site Name	Description	Project	Priority
** FORT POLK (ARMY)			
SITE 1	OLD LANDFILL	RI/FS	C
SITE 2	OLD LANDFILL	RI/FS	C
SITE 3	OLD LANDFILL	RI/FS	C
SITE 4	OLD LANDFILL	RI/FS	C
SITE 5	OLD LANDFILL	RI/FS	C
SITE 6	OLD LANDFILL	RI/FS	C
SITE 7	OLD LANDFILL	RI/FS	C
SITE 8	OLD LANDFILL	RI/FS	C
SITE 9	S. FORT FIREFIGHTER PIT-N	RI/FS	C
SITE 10	DPDO AREA	RI/FS	C
** LOUISIANA AAP (ARMY)			
SITE 1	AREA P	RI/FS	A
SITE 2	BG5	RI/FS	A
SITE 3	CADMIUM WASTE POND/OWTS RETENTION POND	RA	C
SITE 4	LANDFILL 8	RI/FS	A
SITE 5	LANDFILL 3	RI/FS	A
** NAS NEW ORLEANS (NAVY)			
SITE .	FIRE FIGHTING TRAINING AREA	RI/FS	C
SITE 6	FUEL TANK STRIPPING BURN AREA	RI/FS	C
SITE 9	LNDFL AT B 704	RI/FS	C
** BARKSDALE AFB (AF)			
SITE FT 01	FPTA 1	RI/RD	B
SITE WP 12	POL FLIGHT LINE TANK SLUDGE DISPOSAL	RI	C
** ENGLAND AFB (AF)			
SITE D-15	POL SLUDGE WEATHERING PIT 4	RA/RD	B

MASSACHUSETTS

Site Name	Description	Project	Priority
** MATERIALS TESTING LABORATORY (ARMY)			
SITE 1	BLDG 312 BE & U LABS	RI/FS	C
SITE 2	BLDG 43 & FNDR SHOP	RI/FS	C
SITE 3	ORGAN MATER LAB BLDG 39	RI/FS	C
SITE 4	ORGAN MATER LAB BLDG 292	RI/FS	C
SITE 5	ORGAN MATER LAB BLDG 97	RI/FS	C
SITE 6	BLDG 221	RI/FS	C
SITE 7	METALS & CERAM, BLDG 313	RI/FS	C
SITE 8	BLDG 214	RI/FS	C
SITE 9	BLDG 72	RI/FS	C
SITE 10	RADIOACTIVE STOR, BLDG 39	RI/FS	C
SITE 11	BLDG 243	RI/FS	C
SITE 12	BLDG 97	RI/FS	C

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

MASSACHUSETTS

Site Name	Description	Project	Priority
SITE 13	BLDG 311	RI/FS	C
SITE 14	I W DISCHARGE TO SEWER	RI/FS	C
SITE 15	BLDG 71	RI/FS	C
SITE 16	AREA 241 BERYLLIUM WASTES	RI/FS	C
SITE 17	PARDING AREA RUNOFF	RI/FS	C
SITE 18	BLDG 292	RI/FS	C
SITE 19	BLDG METAL CLEANING SITE	RI/FS	C
** NATICK R&D COMMAND (ARMY)			
SITE 1	FIRE PIT AREA	RA	C
** HANSCOM AFB (AF)			
SITE FT 01	FIRE TRAINING 1	RD	B
SITE FT 02	FIRE TRAINING 4	RA/RD	A
SITE LF 02	SANITARY LANDFILL	RA/RD	A
SITE SS 02	MERCURY SPILL	RA/RD	C
SITE WP 01	JET FUEL TANK SLUDGE	RA/AD	A
SITE WP 02	PAINT WASTE DISPOSAL	RA/RD	A
** OTIS AFB (AF)			
SITE 03	14 SITE STUDY	RI/FS	A
SITE SD-1	SD-1,SD-2,SD-5 CLEAN-UP	RA	A

MARYLAND

Site Name	Description	Project	Priority
** ABERDEEN PRVG GRND, ABERDEEN (ARMY)			
SITE 1	J-FIELD	RI/FS	A
SITE 2	CARROL ISLAND	RI/FS	A
SITE 3	GRACES QRTS	RI/FS	A
SITE 4	O-FIELD	RI/FS	A
SITE 5	CANAL CREEK	RI/FS	A
SITE 6	NIKE SITE	RI/FS	A
SITE 7	WHITE PHOSPHORUS DISPOSAL	RI/FS	A
SITE 8	STUDY	RI/FS	A
** BLOSSOM POINT FIELD TEST ACTIVITY (ARMY)			
SITE 1	LANDFILL	RI	C
SITE 3	LANDFILL	RI	C
SITE 4	LANDFILL	RI	C
SITE 5	LANDFILL	RI	C
SITE 6	LANDFILL	RI	C
SITE 7	LANDFILL	RI	C
SITE 8	LANDFILL	RI	C
** FORT MEADE (ARMY)			
SITE 2	OPERATING LANDFILL	RI/FS	C
** NAS PATUXENT RIVER (NAVY)			
SITE	AREA SOUTH OF BLDG 665	RI/FS	B
SITE 1	FISHERY PT LNDFL	RI/FS	C
SITE 2	DISP. NEAR POND 1	RI/FS	C
SITE 4	HERMANELLE DROP SITE	RI/FS	B
SITE 6	STOR. AREA FUEL FARM	RI/FS	C
SITE 7	SLUDGE AT FFA/STREAM	RI/FS	B
SITE 8	POND SOUTH OF SUPPLY	RI/FS	B

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

MARYLAND

Site Name	Description	Project	Priority
SITE 11	FORMER SANITARY LANDFILL	RI/FS	B
SITE 14	FUEL FARM	TD	B
SITE 15	81111/180 FORMER WASHRACK	RI/FS	C
SITE 17	PEST CONTROL B 841	RI/FS	C
SITE 23	DPDO SALVAGE YD	RI/FS	B
SITE 24	BLDG 114 DISCHARGES TO DRYWELL	RI/FS	B
SITE 25	SOLVENT DROP BEHIND BLDG 114	RI/FS	B
SITE 28	TRANSFORMER STORAGE B516	RI/FS	C
SITE 29	B 306/CARBON TETRA CHLORIDE	RI/FS	C
** NIROP CUMBERLAND (NAVY)			
SITE 1	NORTHERN RIVERSIDE WASTE DISPOSAL SITE	RI/FS	B
SITE 2	PREVIOUS BURNING GROUND	RI/FS	B
SITE 3	PREVIOUS GROUND BURNING	RI/FS	B
SITE 4	DEVELOPING SOLUTIONS DISPOSAL AREA	RI/FS	B
SITE 5	INERT LANDFILL (NO ORDNANCE)	RI/FS	B
SITE 6	SENSITIVITY TEST AREA SURFACE WATER	RI/FS	B
** NOS INDIAN HEAD (NAVY)			
SITE 5	BLDG 731 X-RAY COOLING WATER	RI/FS	B
SITE 8	MERCURY DEPOSITS-BLAZZI PLANT	RI/RA	B
SITE 12	TOWN GUT	RI/FS	B
** NSWC WHITE OAK (NAVY)			
SITE 2	APPLE ORCHARD LNDFL	RI/FS	B
SITE 4	CHEM. BURIAL SITE	RI/FS	B
SITE 7	ORDNANCE BURN AREA	RI/FS	B
SITE 8	ABANDON CHEM. DISP.	RI/FS	B
SITE 9	IND. WW DISP. FROM AREA 300	RI/FS	B
SITE 11	IND. WW DISP. FROM AREA 100	RI/FS	B
** ANDREWS AFB (AF)			
SITE 02	SP-4, FUEL OIL SPILL	RI	B
SITE SP-2	LEAK AREA PD-680	RI	B
SITE SP-6	BRANDYWINE HOUSING SPILL	RI	B
SITE DS 01	DP-1, BRANDYWINE DPDO STORAGE YARD	RI/RA	A
SITE FT 01	FPA 1	RI	B
SITE FT 02	FPA 2	RI	B
SITE FT 03	FT-4, FPTA NO 4	RI	B
SITE JP 04	SP-3, JP-4 SPILL	RI	B
SITE LF 01	D-1, LANDFILL 1	RI	B
SITE LF 02	D-3, LANDFILL 3	RI	B
SITE LF 03	D-4, LANDFILL 4	RI	B
SITE LU 01	SP-8, MOGAS LEAK	RI	B
SITE SP 05	SP-5, EAST SIDE GAS STATION	RI	B
SITE WP 01	WAP-1, BRANDYWINE RECEIVER AREA	RI	B

MAINE

Site Name	Description	Project	Priority
** NAS BRUNSWICK (NAVY)			
SITE 1	LANDFILL ORION ST.(NORTH)	RI/FS	A
SITE 2	LANDFILL ORION ST (SOUTH)	RI/FS	A
SITE 3	HW BURIAL AREA	RI/FS	A

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

MAINE

Site Name	Description	Project	Priority
SITE 4	ACID/CAUSTIC PIT	RI/FS	A
SITE 7	OIL ACID/CAUSTIC PIT	RI/FS	A
SITE 8	PERIMETER ROAD DISPOSAL SITE	RI/FS	A
SITE 9	NEPTUNE DR. DISPOSAL SITE	RI/FS	A
** LORING AFB (AF)			
SITE 01	LNDFL 1	RI	B
SITE 02	ZONE 1 LNDFL 2	RI	A
SITE 03	LNDFL 5	RI	B
SITE 04	RECIEVER SITE	RI	B
SITE 05	QUARRY SITE	RI/RD	B
SITE 06	FUEL TANK FARM	RI	B
SITE 07	FDTA	RI	B
SITE 08	RR MAIN. SITE	RI	B
SITE 09	E. LANDFILL	RI	C
SITE 10	FLIGHTLINE DRAINAGE DITCH, ZONE 2	RI/FS	B
SITE 11	NOSE DOCK AREA	RI	B
SITE 12	FLIGHTLINE AREA 2	RI	B
SITE 13	BX GAS STATION	RI	B
SITE 14	FUEL DROP SITE	RI	C
SITE 16	E. GATE WASTE STOR. TANK	RI	C
SITE 17	UNDRGRND TRANSFORMER SITE	RI	B
SITE 18	FLY ASH DISP. AREA	RI	C
SITE 19	COAL STORAGE AREA	RI	C

MICHIGAN

Site Name	Description	Project	Priority
** DETROIT ARSENAL (ARMY)			
SITE 2	BOUNDRY POL SITE	RI/RA	C
** K.L.SAWYER (AF)			
SITE 01	POL AREA	RI	C
SITE DP-2	HOSPITAL DRAINAGE POND	RI	B
SITE DP-3	NORTHSIDE SHOP DRAINAGE PIT	RI	B
SITE FT 01	FPTA-1	RI	B
SITE LF 01	LANDFILL 1	RI	B
SITE LF 02	LANDFILL 2	RI	B
SITE OT 01	WALLIS TERM. ANNNX	RI	B
** PHELPS COLLINS ANG (AF)			
SITE 2	MULTISITES	RD	B
** WURTSMITH AFB (AF)			
SITE D-06	D-06 LANDFILL NORTH AREA	RI	C
SITE SP-3	SP-3 FUEL SPILL AT POL STOR. AREA	RA	B
SITE FT-01	FT-01,FTA-1	RI	C
SITE FT-02	FT-02,FTA-2	RI	C
SITE SP-01	SP-01,SP-02,SP-03,SP-05,SP-07	RI	C
SITE SP-08	SP-08,SP-09,SP-10,SP-11,SP-12	RI	C
SITE SP-14	SP-14,SP-17,SS-01	RI	C

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

MINNESOTA

Site Name	Description	Project	Priority
** TWIN CITIES AAP (ARMY)			
SITE 1	SLUDGE AND SUMP ANALYSIS	RI/RA	A
SITE 2	A-L	RI/RA	A
SITE 3	129-3	RI/RA	A
SITE 4	129-5	RI/RA	A
SITE 5	129-15	RI/RA	A
SITE 6	A	RI/RA	A
SITE 7	B	RI/RA	A
SITE 8	C	RI/RA	A
SITE 9	D	RI/RA	A
SITE 10	E	RI/RA	A
SITE 11	F	RI/RA	A
SITE 12	G	RI/RA	A
SITE 13	H	RI/RA	A
SITE 14	I	RI/RA	A
SITE 15	J	RI/RA	A
** NIROP MINNEAPOLIS (NAVY)			
SITE 1	WASTE DISPOSAL TRENCHES	RI/FS	B
SITE 2	WASTE DISPOSAL PITS	RI/FS	B
SITE 3	AREA BENEATH THE NIROP BLDG	RI/FS	B
** MINN ST. PAUL IAP (AF)			
SITE 01	SMALL ARMS RANGE LANDFILL	FS	A
SITE 04	MOGAS SPILL	FS	C
SITE 05	POL SPILL AREA	FS	B
SITE 06	LIQ. SLUDGE BURIAL PIT	FS	C
SITE 07	FUEL SPILL AREA	RD	B
SITE 08	HW STORAGE AREA	FS	B
SITE P-04	NAVAL BLDG HTG FUEL SPILL	FS	C

MISSOURI

Site Name	Description	Project	Priority
** LAKE CITY AAP (ARMY)			
SITE 1	LANDFILL AND OTHERS	RI/FS	A
** WELDON SPRING TRAINING AREA (ARMY)			
SITE 1	DOE/DA MOU	RI/FS	A
** WHITEMAN AFB (AF)			
SITE OS 01	DRUM STORAGE BLDG 7-9	RI	C
SITE FT 01	FOTA	RI	B
SITE FT 02	FPTA 2	RI	C
SITE LF 01	LANDFILL 1	RI	C
SITE LF 02	LANDFILL 2	RI	C
SITE LF 03	LANDFILL 3	RI	C
SITE LF 04	LANDFILL 4	RI	C
SITE LF 05	LANDFILL 5	RI	B
SITE LU 01	FLIGHTLINE UNDERGROUND FUEL TANK	RI	C
SITE OT 01	CHLORDANE APPLICATION AREAS	RI	B
SITE OT 02	STORMWATER DRAINAGE, WASH RACK	RI	C
SITE WP 01	PESTICIDE DISPOSAL AREA	RI	B
SITE WT 01	SODIUM CHROMATE TREATMENT AT WTP	RI	B

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

MISSISSIPPI

Site Name	Description	Project	Priority
** CBC GULFPORT (NAVY)			
SITE	RUBBLE DISPOSAL AREA	RI/FS	B
SITE	MCALLISTER PT LANDFILL	RI/FS	B
SITE 1	FIRE FIGHTING TRAINING AREA	RI/FS	B
SITE 2	DISASTER RECOVERY DISPOSAL AREA	RI/FS	B
SITE 3	WW II LANDFILL	RI/FS	B
SITE 4	NW LANDFILL	RI/FS	B
SITE 5	GOLF COURSE LANDFILL	RI/FS	B
SITE 6	HEAVY EQ. TRAINING AREA LNDFL	RI/FS	B
** COLUMBUS AFB (AF)			
SITE LU 01	LU01-10	RI/FS	B
** KEESLER AFB (AF)			
SITE 01	LANDFILL 1	RI	C
SITE FT 01	FPTA AND LANDFILL 3	RI	B
SITE LF 02	LANDFILL 2	RI	B
SITE LU 01	LU01	RI/FS	C
SITE LU 02	LU02	RI/FS	C
SITE OT 01	TRANSFORMER STORAGE	RI	B
SITE WP 01	ETCHING SHOP DRAINAGE PIT	RI	B
SITE WP 02	PESTICIDES RINSE PIT	RI	B
SITE WP 03	SLUDGE BURIAL SITE AT LF 1	RI	B
SITE WP 04	TFL SLUDGE BURIAL AT ANNEX 1	RI	B

NORTH CAROLINA

Site Name	Description	Project	Priority
** MCAS CHERRY POINT (NAVY)			
SITE 1	LANDFILL	RI/FS	B
SITE 2	LANDFILL	RI/FS	B
SITE 4	LANDFILL	RI/FS	B
SITE 10	OLD SANITARY LANDFILL	RI/FS	B
SITE 15	AREA AND DITCH BEHIND NALF	RI/FS	B
SITE 16	LANDFILL AT SANDY BRANCH	RI/FS	B
SITE 17	DPDO STORAGE AREA	RI/FS	B
SITE 21	BORROW PIT/LANDFILL	RI/FS	B
** MCB CAMP LEJEUNE (NAVY)			
SITE	NEW RIVER OFFICER'S HOUSING AREA	RI/FS	B
SITE	RAPID REFUELING SITE	RI/FS	B
SITE 1	FRENCH CREEK LIQUIDS DISPOSAL AREA	RI/FS	B
SITE 2	FORMER NURSERY/DAY CARE CENTER	RI/FS	B
SITE 6	STORAGE LOTS 201 AND 203	RI/FS	B
SITE 9	FIRE FIGHTING TRAINING PIT	RI/FS	B
SITE 21	TRANSFORMER STORAGE LOT 140	RI/FS	B
SITE 22	INDUSTRIAL TANK FARM AREA	RI/FS	B
SITE 24	INDUSTRIAL FLY ASH DUMP	RI/FS	B

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

NORTH CAROLINA

Site Name	Description	Project	Priority
SITE 28	HADNOT POINT BURN DUMP	RI/FS	B
SITE 30	SNEADS FERRY ROAD FUEL TANK AREA	RI/FS	B
SITE 35	CAMP GEIGER AREA FUEL FARM	RI/FS	C
SITE 36	CAMP GEIGER AREA DUMP	RI/FS	C
SITE 41	CAMP GEIGER DUMP	RI/FS	B
SITE 45	UNDERGROUND AVGAS STORAGE	RI/FS	B
SITE 48	NEW RIVER HOUSING DUMPSITE	RI/FS	B
SITE 54	CRASH CREW FIRE TRAINING	RI/FS	B
SITE 68	RIFLE RANGE DUMP	RI/FS	B
SITE 69	RIFLE RANGE CHEMICAL DUMP	RI/FS	B
SITE 73	LIQUID DISPOSAL	RI/FS	B
SITE 74	MESS HALL GREASE PIT AREA	RI/FS	B
SITE 75	BASKETBALL COURT SITE	RI/FS	B
SITE 76	CURTIS ROAD SITE	RI/FS	B
** POPE AFB (AF)			
SITE FT 01	FPTA-4	RI	B
SITE LF 01	HARDFILL 2	RI	B
SITE LF 02	HARDFILL 8	RI	B
SITE SS 01	POL BULK STORAGE	RI	B
SITE SS 02	TIRE SHOP WASTE	RI	B
SITE WP 01	POL SLUDGE DISPOSAL	RI	B

NORTH DAKOTA

Site Name	Description	Project	Priority
** GRAND FORKS AFB (AF)			
SITE FT 01	FIRE TRAINING PIT	RI	C
SITE LF 01	LANDFILL AREA	RI	C
SITE MU 01	EOD AREA	RI	C

NEBRASKA

Site Name	Description	Project	Priority
** CORNHUSKER AAP (ARMY)			
SITE 2	EARTHEN IMPOUNDMENTS (56)	RA	A
** OFFUTT AFB (AF)			
SITE 04	SPILL SITE 4	RI	B
SITE DS 01	HAZARDOUS WASTE YARD	RI	B
SITE FT 01	FIRE TRAINING PIT 1	RI	B
SITE FT 02	FIRE TRAINING PIT 2	RI	B
SITE FT 03	FIRE TRAINING PIT 3	RI	B
SITE LF 01	LANDFILL 1	RI	B
SITE LF 02	LANDFILL 2	RI	B
SITE LF 03	LANDFILL 3	RI	B
SITE LF 04	LANDFILL 4	RI	B
SITE LF 05	LANDFILL 5	RI	B
SITE OT 01	HARDFILL 4	RI	B
SITE OT 02	HARDFILL 5	RI	B
SITE OT 03	HARDFILL 6	RI	B

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

NEBRASKA

Site Name	Description	Project	Priority
SITE RW 01	RADIOACTIVE WASTE SITE	RI	C
SITE SS 01	SPILL SITE 1	RI	B
SITE SS 02	SPILL SITE 2	RI	C

NEW HAMPSHIRE

Site Name	Description	Project	Priority
** NSY PORTSMOUTH (NAVY)			
SITE 1	JAMAICA ISLAND LNDFL	RI/FS	B
** PEASE AFB (AF)			
SITE 02	LANDFILL 2	RI	C
SITE 03	LANDFILL 3	RI	C
SITE 04	LANDFILL 4	RI	C
SITE 05	LANDFILL 5	RI	B
SITE 06	LANDFILL 6	RI	C
SITE 07	FPTA 1	RI	C
SITE 08	FPTA 2	RI/RD	A
SITE 10	FUEL TANK SLUDGE DISP.	RI	C
SITE 12	MUNITIONS STOR. AND SOLVENT DISP. AREA	RI	B
SITE 13	BULK FUEL STOR.SPILL	RI	B
SITE 14	ZONE 6 FUEL LINE SPILL	RI	C
SITE 15	IND. SHOP / PARKING APRON	RI	C
SITE 17	CONSTR. RUBBLE DUMP 2	RI	C
SITE 19	GRAFTON DITCH	RI	C
SITE 20	NEW FIELD DITCH	RI	C
SITE 21	MCINTYRE BROOK	RI	C
SITE 11A	FMS EQUIP/ CLEANING	RI	C
SITE 11B	CONSTRUCTION RUBBLE	RI	B
SITE LF 01	LANDFILL 1 SITE 1	RI	B

NEW JERSEY

Site Name	Description	Project	Priority
** FORT DIX (ARMY)			
SITE 3	TCE DUMPSITE	RI/FS	A
SITE 4	NPL LANDFILL	RI/FS	A
SITE 5	DIO MAINTENANCE	RI/FS	A
SITE 6	DIO TRANS DIV MOTOR POOL	RI/FS	A
SITE 7	OPT AVIATION DIV	RI/FS	A
SITE 8	DEH MOTOR POOL	RI/FS	A
SITE 9	AAFES PX SERVICE STATION	RI/FS	A
SITE 10	5TH BDE MOTOR POOL	RI/FS	A
SITE 11	5TH BDE MAINTENANCE	RI/FS	A
SITE 12	2/5 BN MOTOR POOL	RI/FS	A
SITE 13	3/5 BN MOTOR POOL	RI/FS	A
SITE 14	78TH DIV RESERVES ECS 26	RI/FS	A
SITE 15	OPCA AUTO CRAFT SHOP	RI/FS	A
SITE 16	511/753TH M.P. MOTOR POOL	RI/FS	A
SITE 17	556TH MED AMB MOTOR POOL	RI/FS	A

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

NEW JERSEY

Site Name	Site No.	Description	Project	Priority
SITE	18	39TH ENGR MOTOR POOL	RI/FS	A
** MILITARY OCEAN TERMINAL, BAYONNE (ARMY)				
SITE	1	LANDFILL	RI/FS	C
SITE	3	VEHICLE MAINTANENCE AREA	RI/FS	C
SITE	4	UNDERGROUND STOR TANK	RI/FS	C
SITE	5	UNDERGROUND STOR TANKS	RI/FS	C
SITE	6	UNDERGROUND STOR TANKS	RI/FS	C
SITE	7	UNDERGROUND STOR TANKS	RI/FS	C
SITE	8	UNDERGROUND STOR TANKS	RI/FS	C
SITE	9	UNDERGROUND STOR TANKS	RI/FS	C
SITE	10	UNDERGROUND STOR TANKS	RI/FS	C
SITE	11	UNDERGROUND STOR TANKS	RI/FS	C
SITE	12	UNDERGROUND STOR TANKS	RI/FS	C
SITE	13	UNDERGROUND STOR TANKS	RI/FS	C
SITE	14	UNDERGROUND STOR TANKS	RI/FS	C
SITE	15	UNDERGROUND STORAGE TANKS	RI/FS	C
SITE	16	UNDERGROUND STOR TANKS	RI/FS	C
** PICATINNY ARSENAL (ARMY)				
SITE	1	GUN COTTON PIPELINE	RA	C
SITE	2	BLDG 24	RI/FS	C
SITE	3	SHELL BURIAL AREA 83150	RI/FS	B
SITE	4	CHEMICAL BURIAL PIT	RI/FS	B
SITE	5	BLOG 95	RI/RA	C
SITE	7	HAZARDOUS WASTE PILE	RA	C
SITE	9	ROCKET FUEL TEST G-2 AREA	RI/FS	B
SITE	10	ROCKET FUEL TEST G-1 AREA	RI/FS	B
SITE	11	ROCKET FUEL TEST AREA	RI/FS	B
SITE	12	ROCKET FUEL TEST AREA	RI/FS	B
SITE	13	SHELL BURIAL AREA 83100	RI/FS	B
SITE	14	MUNITIONS AND PROPELLANT AREA	RI/FS	B
SITE	15	MUNITIONS TEST RANGE	RI/FS	B
SITE	16	MUNITIONS WASTE PIT	RI/FS	B
SITE	17	MUNITIONS TEST AREA	RI/FS	B
SITE	19	MUNITIONS TEST DEBRIS	RI/FS	B
SITE	20	TETRYL PITS	RI/FS	B
SITE	21	TETRYL PITS	RI/FS	B
SITE	22	PYROTECHNICAL DEMO AREA	RI/FS	B
SITE	23	PYROTECHNIC TEST RANGE	RI/FS	B
SITE	25	SANITARY LANDFILL	RI/FS	B
SITE	26	SANITARY LANDFILL	RI/FS	B
SITE	27	DEEDGE PILE	RI/FS	B
SITE	28	MUNITIONS TEST AREA	RI/FS	B
SITE	29	POST FARM LANDFILL	RI/FS	B
** NAEC LAKEHURST (NAVY)				
SITE		BOMARK SITE	RI/FS	A
SITE	1	BLUMP CRASH SITE	RI/FS	A
SITE	2	RSTS TRACK 2	RI/FS	A
SITE	3	DRAINAGE DITCH	RI/FS	A
SITE	4	DEADLOAD MAINTENANCE SHOP	RI/FS	A
SITE	5	ARRESTING ENGINE TRACK 2, BLDG 371	RI/FS	A
SITE	6	CATAPULT TEST FAC.	RI/FS	A

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

NEW JERSEY

Site Name	Description	Project	Priority
SITE 7	CATAPULT TEST STOR AREA	RI/FS	A
SITE 8	ARRESTING ENGINE TRACK, BLDG 529	RI/FS	A
SITE 9	HANGAR 2 DISPOSAL AREA	RI/FS	A
SITE 10	FUEL TRUCK STOR AREA	RI/FS	A
SITE 11	HANGAR 5 DISPOSAL AREA	RI/FS	A
SITE 12	FUEL STOR FAC 141	RI/FS	A
SITE 13	FUEL FARM NO. 125	RI/FS	A
SITE 14	OLD FIRE FIGHTING SCHOOL	RI/FS	A
SITE 15	BLDG 562	RI/FS	A
SITE 16	NATTC FIRE FIGHTING TRAINING AREA	RI/FS	A
SITE 17	FUEL FARM NO 196	RI/FS	A
SITE 18	EXCHANGE GAS STATION	RI/FS	A
SITE 19	SATS CATAPULT (7401 TEST SITE)	RI/FS	A
SITE 20	TETRAETHYL LEAD DISPOSAL SITE	RI/FS	A
SITE 21	JET-CAR MAINTENANCE SHOP	RI/FS	A
SITE 22	JET BLAST DEFLECTOR	RI/FS	A
SITE 23	DISPOSAL AREA	RI/FS	A
SITE 24	CATAPULT TEST SITE 7419	RI/FS	A
SITE 25	TEST DEPT DISPOSAL AREA	RI/FS	A
SITE 26	CONTRACTOR DISPOSAL AREA	RI/FS	A
SITE 27	RSTS SCRAP SITE	RI/FS	A
SITE 28	WEST FIELD HANGAR AREA	RI/FS	A
SITE 29	ORIGINAL BASE LANDFILL	RI/FS	A
SITE 30	RSTS TRACK 4 RECOVERY END	RI/FS	A
SITE 31	SANITARY LANDFILL	RI/FS	A
SITE 32	RSTS LAUNCHING END	RI/FS	A
SITE 33	REFUELER REPAIR SHOP DRYWELL	RI/FS	A
SITE 34	PARACHUTE JUMP CIRCLE	RI/FS	A
SITE 35	HELICOPTER REFUELING AREA	RI/FS	A
SITE 36	HANGAR 1 DISPOSAL AREA	RI/FS	A
SITE 37	FUEL DISPOSAL AREA	RI/FS	A
SITE 38	OIL SKIMMING AND SLUDGE DISPOSAL AREA	RI/FS	A
SITE 39	POL DISPOSAL AT HANGAR 3	RI/FS	A
SITE 40	SOIL STABILIZATION FIELD TEST	RI/FS	A
SITE 42	BASE LANDFILL	RI/FS	A
SITE 44	PCB STOR AND TESTING AREA	RI/FS	A
** NAPC TRENTON (NAVY)			
	BAROMETRIC WELL		B
SITE 1	BRINE HANDLING AND WEST END DRAINAGE	RI/FS	B
SITE 2	FIRE FIGHTING AREA	RI/FS	B
SITE 3	SLUDGE DISPOSAL	RI/FS	B
SITE 4	BLDG 41 OVERHEAD FUEL LEAK	RI/FS	B
SITE 5	BLDG 42 OVERHEAD FUEL LEAK	RI/FS	B
SITE 6	OIL CONTAM NEAR BLDG 34	RI/FS	B
SITE 7	FORMER MOGAS TANK LEAK	RI/FS	B
** NWS EARLE COLTS NECK (NAVY)			
SITE	UNNAMED TRIBUTORS	RI/FS	A
SITE 2	ORDNANCE DEMILITARIZATION SITE	RI/FS	A
SITE 3	LANDFILL SW OF "F"	RI/FS	A
SITE 4	LANDFILL WEST OF "D"	RI/FS	A
SITE 5	LANDFILL WEST OF ARMY BRIGADE	RI/FS	A

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

NEW JERSEY

Site Name	Description	Project	Priority
** MCGUIRE AFB (AF)			
SITE 01	BLDG 1123 SPILL SITE	RA	C
SITE 02	BLDG 792 SPILL SITE	RA	C

NEW MEXICO

Site Name	Description	Project	Priority
** AFP NO.83, ALBUQUERQUE (AF)			
SITE S1	S1	RVFS	C
SITE S2	S2	RVFS	C
SITE S3	S3	RVFS	C
SITE S4	S4	RVFS	C
SITE S5	S5	RVFS	C
** CANNON AFB (AF)			
SITE 01	LANDFILL 1	RI	B
SITE 11	ENGINE TEST CELL	RI	B
SITE 15	AGE DRAINAGE DITCH	RI	B
** HOLLIDAY AFB (AF)			
SITE 17	BX SERVICE STATION FUEL LEAK	RV/RD	B
** KIRTLAND AFB (AF)			
SITE FT 01	FIRE TRAINING PIT	RA/RD	C
SITE LF 01	LANDFILL 1	RA	B
SITE LF 02	LANDFILL 2 RIP/RAP	FS/RD	B
SITE LF 06	RADIOACTIVE BURIAL SITE NO. 11	FS	C

NEVADA

Site Name	Description	Project	Priority
** RAWTHORNE AAP (ARMY)			
SITE 1	TEST RANGE	RVFS	C
SITE 3	SURFACE IMPOUNDMENT AREA 101	RVFS	C
SITE 5	MUSTARD GAS DISPOSAL AREA	RVFS	C
SITE 6	SURFACE IMPOUNDMENT AREA 103		C
SITE 7	TEST RANGE	RVFS	C
SITE 8	OLD BOMB AREA	RVFS	C
SITE 9	OB/OD AREA	RVFS	C

NEW YORK

Site Name	Description	Project	Priority
** FORT DRUM (ARMY)			
SITE 1	BLOG 1595 FUEL DISPENSING/SPRING AREA	RVFS	C
SITE 2	CLEANUP AT OLD SANITARY LANDFILL	RV/RA	C
SITE 3	MONITORING	RI	C
** SENECA AD (ARMY)			
SITE 1	DEMOLITION GROUNDS PAD B	RA	C

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

NEW YORK

Site Name	Description	Project	Priority
** AFP NO.38 (AF)			
SITE 06	WASTE SITE 1	RI/F5	B
SITE 07	WASTE SITE 2	RI/F5	B
SITE 08	WASTE SITE 3	RI/F5	B
SITE 09	WASTE SITE 5	RI/F5	B
SITE S1	S1	RA	C
SITE S2	S2	RA	C
SITE S3	S3	RA	C
SITE S4	S4	RA	C
** AFP NO.59, JOHNSON CITY (AF)			
SITE S1	S1	RI/F5	C
SITE S2	S2	RI/F5	C
SITE S3	S3	RI/F5	C
** GRIFFISS AFB (AF)			
SITE T9	CONTAMINATED AREA NEAR T9	RA	C
SITE B20	CONTAMINATED AREA NEAR BLDG 20	RA	C
SITE B26	BLDG 26 UST	RA	C
SITE NP-1	UT AT NEWPORT AREA	RA	C
SITE OS 01	BULK FUEL STORAGE AREA	RU	C
SITE FT 01	FPTA	RA/RD	C
SITE OT 04	DRYWELL BLDG 3	RA	A
** NIAC³RA FALLS IAP (AF)			
SITE OS 02	BLDG 202 DRUM STORAGE	RI	B
SITE OS 03	BLDG 850 DRUM STORAGE	RI	C
SITE OS 04	MW DRUM STORAGE	RI	B
SITE FT 01	FPTA 1	RI	C
SITE FT 02	FPTA 2	RI	C
SITE FT 03	FPTA 3	RI	B
SITE LF 01	LANDFILL	RI	B
SITE LU 01	8X MOGAS LEAK	RI	B
SITE OT 01	BLDG 600 PIPELINE LEAK, JP-4	RI	B
SITE OT 02	POL TANK A, JP-4	RI	B
SITE OT 03	TANK C, JP-4 LEAK	RI	B
SITE SS 01	JP-4 TANK TRUCK SPILL	RI	B
** PLATTSBURGH AFB (AF)			
SITE D-4	LANDFILL, SOUTH OF FPTA	RI	B
SITE SP-2	HEATING FUEL SPILL, BLDG 205	RI	C
SITE SP-3	JP-4 AND SOLVENT SPILLS APRON	RI	P
SITE SP-5	JP-4 SPILL, INSULATION VALVE	RI	C
SITE SP-6	JP-4 SPILLS, BLDG 2542	RI	B
SITE SP-7	OPDO FUEL OIL SPILL	RI	C
SITE SP-8	FUEL SPILLS, POL AREA	RI	B
SITE SP-9	SOLVENT SPILLS, MMS COMPLEX	RI	B
SITE LF 01	FT-1 FIRE TRAINING AREA	RI	B
SITE SP-10	JP-4 SPILLS, ALERT AREA	RI	B
SITE SP-11	ENGINE OIL SPILLS, CAPEHART MSG	RI	C
SITE SP-12	NEW PRODUCT DRUM STORAGE AREA	RI	C
SITE SP-13	NEW AND USED SOLVENT DRUM STORAGE	RVRA	C

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

OHIO

Site Name	Description	Project	Priority
** RAVENNA A&P (ARMY)			
SITE 11	INACTIVE BG AREA	RI/FS	C
** AFP NO.36, EVANDALE (AF)			
SITE LU 01	UNDERGROUND FUEL LEAK NW OF BLDG 8	RA/RD	B
SITE SS 01	FUEL SPILL	RI/FS	B
** AFP NO.85, COLUMBUS (AF)			
SITE 02	COAL PILE LEACHATE SITE	RI/FS	C
SITE 03	PCB SPILL SITE	RI/FS	B
SITE 04	FOTA	RI/FS	B
SITE 05	MASONS RUN OIL/FUEL SPILL	RI/FS	B
SITE 08	JAMES ROAD HAZ WASTE STOR PAD	RI/FS	B
SITE 3&9	NE BLDG FUEL TANK	RI/FS	C
** NEWARK AFS (AF)			
SITE AT-1	ACID STORAGE TANK	RI	B
SITE SP-1	BATTERY ACID AND SOLVENT SPILL	RI	B
SITE SP-3	FREON SPILL, SW OF BLDG 4	RI	B
SITE SP-4	FREON SPILL, VSTRS AND CONTRACTORS	RI	B
** RICKENBACKER ANG (AF)			
SITE 95	MULTIPLE SITES	FS	C
SITE S-1	S-1	RI/FS	C
SITE S-2	S-2	RI/FS	C
SITE S-3	S-3	RI/FS	C
SITE S-4	S-4	RI/FS	C
SITE S-5	S-5	RI/FS	C
SITE S-6	S-6	RI	B
SITE S-9	S-9	RI	B
SITE S-10	S-10	RI	B
SITE S-12	S-12	RI	B
SITE S-14	S-14	RI	B
SITE S-15	S-15	RI	B
SITE S-16	S-16	RI	B
SITE S-17	S-17	RI	B
** WRIGHT-PATTERSON AFB (AF)			
SITE 03	AREAS A, B, AND C	RA/RD	A
SITE FT 01	FOTA 1	RI	A
SITE FT 02	FOTA 2	RI	A
SITE FT 3*	FOTA 3 AND 4, SPILL #1	RI	A
SITE LF 01	LANDFILL 1	RI	A
SITE LF 02	LANDFILL 10	RI	A
SITE LF 03	LANDFILL 11	RI	A
SITE LF 04	LANDFILL 12	RI	A
SITE LF 05	LANDFILL 13	RI	A
SITE LF 06	LANDFILL 2	RI	A
SITE LF 07	LANDFILL 5 TWIN LAKES	RI	A
SITE LF 08	LANDFILL 8	RI	A
SITE LF 09	LANDFILL 9, SANDY HILL	RI	A
SITE LF 10	LANDFILL 3,4,6 AND 7	RI	A
SITE OT 01	COAL STORAGE PILE	RI	A
SITE OT 02	CENTRAL HEAT PLANT 1, BLDG 66	RI	A
SITE OT 03	CENTRAL HEATING PLANT 2	RI	A
SITE OT 04	CENTRAL HEATING PLANT 3, BLDG 170	RI	C

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

OHIO

Site Name	Description	Project	Priority
SITE OT 05	CENTRAL HEATING PLANT 4, BLDG 1240	RI	C
SITE OT 06	CENTRAL HEATING PLANT 5, BLDG 770	RI	C
SITE SS 02	SPILL 2	RI	A
SITE SS 03	SPILL 3	RI	A
** DCSC COLUMBUS (DEFENSE LOGISTICS AGENCY)			
SITE 1	TRANSFER STORAGE AREA	RI/FS	A
** DFSP ESCANABA (DEFENSE LOGISTICS AGENCY)			
SITE 1	TANK FARM	RI	A

OKLAHOMA

Site Name	Description	Project	Priority
** McALESTER AAP (ARMY)			
SITE 1	SURFACE WATER	RI/FS	C
** AFP NO.3, TULSA (AF)			
SITE A	H.W. WASTE STORAGE	RI/FS	B
SITE B	H.W. STOR. AREA	RI/FS	B
SITE C	H.W. STORAGE	RI/FS	B
SITE FT 01	FOTA	RI/FS	B
SITE LF 01	HARDFILL AREAS	RI/FS	B
SITE RW 01	LOW LEVEL RADIOACTIVE DISP. AREA	RI/FS	B
** ALTUS AFB (AF)			
SITE LF 1	LF 1 INVESTIGATION	RI	B
SITE LF 2	LF 2 INVESTIGATION	RI	B
SITE LF 3	LF 3 INVESTIGATION	RI	B
SITE FT 01	FTA 3	RI	B
SITE FT 02	FPA 1	RI	B
SITE FT 03	FTA 2	RI	B
SITE FT 04	FTA 4	RI	B
SITE WP 01	INDUSTRIAL WASTE LAGOON (AGE WASHRACK)	RI/RD	B
SITE WP 02	AIRCRAFT WASHRACK POND	RI	B
** TINKER AFB (AF)			
SITE 01	IWTP TANKS	FS	C
SITE 02	POL TANK FARM/AUST	RI/RA	A
SITE 02	FOTA 2	RI/FS	A
SITE 03	WELLS 18 AND 19	RI	A
SITE FT 01	FOTA 1	RI/FS	A
SITE LF 01	LANDFILL 1	RI/FS	A
SITE LF 02	LANDFILL 2	RI/FS	A
SITE LF 03	LANDFILL 3	RI/FS	A
SITE LF 04	LANDFILL 4	RI/FS	A
SITE LF 05	LANDFILL 5	RI/FS	A
SITE LF 06	LANDFILL 6	RI/FS	A
SITE OT 01	BLDG 3001	RI/RD	A
SITE OT 02	CRUTCHO CREEK	RI/FS	A
SITE OT 03	EAST SOLDIER'S CREEK	RI	A
SITE OT 04	FACILITY 1123	RI	A
SITE OT 06	RWDS 1022E	RI	A
SITE OT 07	RWDS 1030W	RI/FS	A
SITE OT 08	RWDS 201S	RI/FS	A

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

OKLAHOMA

Site Name	Description	Project	Priority
SITE OT 09	RWDS 62598	RI	A

OREGON

Site Name	Description	Project	Priority
** UMATILLA ADA (ARMY) SITE 1	WASHOUT LAGOON	RI/F5	A

PENNSYLVANIA

Site Name	Description	Project	Priority
** LETTERKENNY ARMY DEPOT (ARMY)			
SITE 1	DPOO AREA	RA	A
SITE 3	LAGOON	RA	A
** NEW CUMBERLAND AD (ARMY)			
SITE 1	EASTERN DISTRIBUTION CENTER	RA	C
SITE 3	SOLVENT TANK T-950	RA	C
** TOBYHANNA AD (ARMY)			
SITE 1	OLD SUBSTATION	RA	C
SITE 2	OIL STORAGE AREA	RA	C
SITE 3	BLDG 701	RA	C
SITE 4	BLDG 15	RA	C
** NADC WARMINSTER (NAVY)			
SITE 1	FORMER BURN PIT	RI/F5	A
SITE 2	SLUDGE DISPOSAL AREA	RI/F5	A
SITE 3	WASTE DISPOSAL AREA	RI/F5	A
SITE 4	MAIN LANDFILL	RI/F5	A
SITE 5	BLDG 410 WASTE ENTRENCHMENT	RI/F5	A
SITE 6	WASTE PILES	RI/F5	A
SITE 7	WASTE ENTRENCHMENT	RI/F5	A
SITE 8	FIRE FIGHTING TRAINING AREA	RI/F5	A
SITE 9	STOCKPILE	RI/F5	C
** NAS WILLOW GROVE (NAVY)			
SITE 1	PRIVET RD COMPOUND	RI/F5	B
SITE 2	ANTENNA FIELD LNDFL	RI/F5	C
SITE 3	9TH ST LNDFL	RI/F5	B
SITE 4	NORTH END LNDFL	RI/F5	B
SITE 5	FIRE TRAINING AREA	RI/F5	C
** NSY PHILADELPHIA (NAVY)			
SITE	FUEL FARM	RI/F5	B
SITE 2	BLASTING GRIT AND DRUM DISP AREA	RI/F5	B
SITE 3	TRANSFORMER STOR AREA B 825	RI/F5	C
SITE 4	CYLINDER DISP AREA	RI/RA	B
SITE 6	SUBSTATION 82 TRANSF OIL SPILL	RI/F5	C
SITE 7	B 546-PCB TRANSFORMER SPILL	RI/F5	C
** SPCC MECHANICSBURG (NAVY)			
SITE 3	BURN AREA	RI/F5	B
SITE 4	RADIOACTIVE WASTE DISP	RI/F5	C
SITE 5	GOLF COURSE LANDFILL	RI/F5	C

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

PENNSYLVANIA

Site Name	Description	Project	Priority
SITE 7	BLDG 403/404	RI/FS	B
** GREATER PITTSBURGH IAP (AF)			
SITE 01	POL AREA	FS	C
SITE S 01	PAST POL AREA	FS	C
SITE S 02	CE RUBBLE LANDFILL	FS	C
SITE DS 01	DRUM STORAGE BLDG 408	FS	C
SITE DS 02	DRUM STORAGE BLDG 416	FS	C
SITE OT 01	FUEL LINE BREAK BLDG 316	FS	C
SITE OT 03	PCB STORAGE BLDG 342	FS	C
** WILLOW GROVE ARF (AF)			
SITE 04	WASHRACK AREA	RI	B
SITE 05	WASTE OIL STORAGE AREA, BLDG 4330	RI	B
SITE 07	OLD WELL HOUSE	RI	B
SITE OT 01	HEATING PLANT	RI	B

PUERTO RICO

Site Name	Description	Project	Priority
** NS ROOSEVELT ROADS (NAVY)			
SITE 1	QUEBRADA DISP SITE	RI/FS	B
SITE 2	MANGROVE DISP SITE	RI/FS	C
SITE 3	IRRINA/MAF-4 DISP SITE	RI/FS	C
SITE 5	ARMY CREMATOR DISP AREA	RI/FS	C
SITE 6	LANGLEY DR DISP AREA	RI/FS	C
SITE 7	LANDFILL	RI/FS	B
SITE 8	DRONE WASHDOWN	RI/FS	C
SITE 9	PCB DISPOSAL DRY DOCK AREA	RI/FS	B
SITE 10	BLDG 25	RI/FS	B
SITE 11	BLDG 145	RI/FS	B
SITE 12	TWO WAY RD FUEL FARM	RI/FS	B
SITE 13	TANKS 210 TO 217	RI/FS	B
SITE 14	EMSEN HONDA SHORELINE MAG.	RI/FS	B
SITE 15	SUBSTATION 2	RI/FS	B
SITE 16	OLD POWER PLANK, BLDG 38	RI/FS	B
** MSGA SEBANA SECA (NAVY)			
SITE 6	FORMER PEST CONTROL	RI/FS	B
SITE 7	LEACHATE POND AREA	RI/FS	B

RHODE ISLAND

Site Name	Description	Project	Priority
** CPC DAVISVILLE (NAVY)			
SITE 2	CEI BATT ACIO DISP AREA	RI/FS	B
SITE 3	CEI SOLVENT DISP AREA	RI/FS	B
SITE 4	CEI ASPHALT DISPOSAL	RI/FS	B
SITE 6	SOLVENT DISP	RI/FS	B
SITE 7	CALF PASTURE PT	RI/FS	B
SITE 8	DPOO FILM PROC DISP	RI/FS	B
SITE 9	LANDFL	RI/FS	B

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

RHODE ISLAND

Site Name	Description	Project	Priority
SITE 10	CAMP FOGERTY DISP AREA	RI/FS	B
SITE 11	FIRE FIGHTING TRAINING AREA	RI/FS	B
SITE 12	DPDO TRANSFORMER OIL SPILL	RI/RA	B
SITE 13	DIPS AREA NW OF BLDG W3,W4 AND T1	RI/FS	B
SITE 14	BLDG 38 TRANSFORMER LEAKS	RI/RA	B
** NETC NEWPORT (NAVY)			
SITE 1	MCALLISTER PT LANDFILL	RI/RA	B
SITE 2	MELLVILLE NORTH LANDFILL	RI/RA	B
SITE 7	TANK FARM 1	RI/FS	B
SITE 12	TANK FARM 4	RI/FS	B
SITE 13	TANK FARM 5	RA	B
SITE 14	DISPOSAL AREA	RI/FS	B
SITE 17	GOULD ISLAND ELECTROPLATING	RI/FS	C

SOUTH CAROLINA

Site Name	Description	Project	Priority
** MCAS BEAUFORT (NAVY)			
SITE 1	FENCED HAZARD AREA	RI/FS	B
SITE 2	LAFRENE RD LANDFILL	RI/FS	B
SITE 3	BARROW PIT LANDFILL	RI/FS	B
SITE 5	PESTICIDE RESIDUE PIT	RI/FS	B
SITE 6	INERT LANDFILL SEEPAGE TRENCH	RI/FS	B
SITE 7	DAY TANK SPILL AREA	RI/FS	B
SITE 8	KAVIENG ST LANDFILL	RI/FS	B
SITE 10	TANK SLUDGE DISPOSAL AREA	RI/FS	B
SITE 11	FORMER GSE MAINTENANCE AREA	RI/FS	B
SITE 14	INERT LANDFILL	RI/FS	B
SITE 16	STORM SEWER OUTFALL	RI/FS	B
SITE 17	EASTERN FIRE TRAINING PITS	RI/FS	B
** MCRD PARRIS ISLAND (NAVY)			
SITE 1	INCINERATOR LNDFL	RI/FS	B
SITE 3	CAUSEWAY LANDFILL	RI/FS	B
SITE 4	JUDGE SPOILS AREA	RI/FS	B
SITE 16	PAST RINSEATE DISPOSAL AREA	RI/FS	B
** NSY CHARLESTON (NAVY)			
SITE 1	BASE LANDFILL	RI/FS	B
SITE 2	CHEM. DISPOSAL AREA	RI/FS	B
SITE 3	OIL SLUDGE PITS	RI/FS	B
SITE 4	POL TRANSFER PT	RI/RA	B
SITE 5	FORMER FIRE FIGHTING TRAINING PIT	RI/RA	B
SITE 6	PCB STORAGE AREA	RI/RA	B
SITE 7	FORMER PESTICIDE MIXING AREA	RI/FS	B
SITE 8	CAUSTIC PIT	RI/FS	C
SITE 9	NSC OLD POL STORAGE AREA	RI/RA	B
** NWS CHARLESTON (NAVY)			
SITE	S ANNEX MUNITIONS DISPOSAL	RI/FS	B
SITE	PCP DIP TANK AT BLDG 88	RI/FS	B
SITE 1	SOUTH SIDE ORDNANCE DISPOSAL	RA	B
SITE 2	SOUTH SIDE LNDFL	RI/RA	B

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

SOUTH CAROLINA

Site Name	Description	Project	Priority
SITE 5	NORTH SIDE LNDFL	RI/RA	B
SITE 8	NORTH SIDE BURN AREA	RI/RA	B
SITE 9	OLD SOUTH SIDE PESTICIDE RINSE AREA	RI/RA	B
SITE 12	S. ANNEX WASTE DISPOSAL AREA	RI/RA	B
** CHARLESTON AFB (AF)			
SITE 01	BURIED AREA	RI	B
SITE 02	CONTAMINATED LAGOON	RI/RA	B
SITE DS 01	HZ WASTE STORAGE AREA 1 ZONE 2	RI	B
SITE DS 02	HZ WASTE STORAGE ZONE 2	RI	B
SITE DS 03	MATERIALS STOR. AREA	RI	B
SITE DS 04	SALV MATERIAL STORAGE AREA	RI	B
SITE FT 02	FIRE DEMO AREA 2	RI	B
SITE FT 03	FPTA 1	RI/RA	B
SITE FT 04	FPTA 2	RI	B
SITE FT 05	FPTA 3	RI/RA	B
SITE FT 06	FPTA NORTH AUX. FIELD	RI	B
SITE LF 01	LANDFILL 1	RI/RA	B
SITE LF 02	LANDFILL 2	RI/HA	B
SITE LF 03	LANDFILL 3	RI/RA	B
SITE LF 04	LANDFILL 4	RI	B
SITE LU 01	GAS STATION LEAK	RI	B
SITE OT 01	ENTOMOLOGY (PRESENT)	RI	B
SITE OT 02	HARDFILL 1	RI	B
SITE OT 03	HARDFILL 3, ZONE 1	RI	B
SITE OT 04	ENTOMOLOGY SHOP (PAST)	RI	B
SITE SS 01	DEFENSE FUEL SUPPORT TANK FARM	RI	B
SITE SS 02	NORTH PCB SPILL	RI	B
SITE SS 03	SOUTH PCB SPILL	RI	B
SITE WP 01	DUMP SITE	RI	B
** MYRTLE BEACH AFB (AF)			
SITE SS 01	FLIGHTLINE CONTAMINATED AREA	RD	B
** DFSP CHARLESTON (DEFENSE LOGISTICS AGENCY)			
SITE 1	TANK FARM	RA	A
** DRMO CHARLESTON (DEFENSE LOGISTICS AGENCY)			
SITE 1	DRMO STORAGE YARD	FS	A

SOUTH DAKOTA

Site Name	Description	Project	Priority
** ELLSWORTH AFB (AF)			
SITE SP 1	PUMPHOUSE NO 7	RI	C
SITE SP 7	PUMP HOUSE NO 6	RI	B
SITE SP 9	AUTO SHOP HEATING FUEL	RI	B
SITE FT 01	FIRE TRAINING AREA	RI	B
SITE LF 01	LANDFILL 1	RI	B
SITE LF 02	LANDFILL 2	RI	C
SITE LF 03	LANDFILL 3	RI	B
SITE LF 04	LANDFILL 4	RI	C
SITE LF 05	LANDFILL 5	RI	C
SITE LF 06	LANDFILL 6	RI	C

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

SOUTH DAKOTA

Site Name	Description	Project	Priority
SITE RW 01	LOW LEVEL RADIOACTIVE WASTE BURIAL SITE	RI	C
SITE SP 02	C-9 LF COOLANT SPILL	RI	C
SITE SP 03	HYDRANT LINE LEAKS	RI	C
SITE SP 04	EOD PRAMITOL SPILL	RI	C
SITE SP 05	C-11 LF COOLANT SPILL	RI	C
SITE SP 06	N-10 LF COOLANT SPILL	RI	C

TENNESSEE

Site Name	Description	Project	Priority
** HOLSTON AAP (ARMY)			
SITE 1	NITRATE POND 3	RI/FS	C
SITE 2	BURNING GROUND	RI/FS	C
SITE 3	B-LINE POND	RI/FS	C
SITE 4	AREA A FLY ASH POND	RI/FS	C
SITE 5	TAR SITE	RI/FS	C
** MILAN AAP (ARMY)			
SITE 2	OPEN BURNING/OPEN DETONATION AREA	RI/FS	A
** VOLUNTEER AAP (ARMY)			
SITE 2	MONITORING; SOURCE CONTROL	RI/FS	C
** HAS MEMPHIS (NAVY)			
SITE .	SEWAGE LAGOONS	RI/FS	B
SITE 2	S. LNOFL	RI/FS	B
SITE 3	N-121 PLATING SHOP DRY WELL	RI/FS	B
SITE 4	N-121 PLATING SHOP SEWER DITCH	RI/FS	B
SITE 7	N-126 PLATING SHOP DRY WELL	RI/FS	B
SITE 8	CEMETERY DISP.	RI/FS	C
** WROB BRISTOL (NAVY)			
SITE 1	RIDGE DISPOSAL AREA	RI/FS	B
SITE 2	HOLLOW DISPOSAL AREA	RI/FS	B
SITE 3	SLUDGE LAGOONS	RI/FS	B
SITE 4	PLATING WASTE DISPOSAL PIT	RI/FS	B
SITE 6	STORM SEWER OUTFALL	RI/FS	B
** ARNOLD AFS (AF)			
SITE 01	LANDFILL 2. LEACHATE PIT 2	FS/RO	A
** DDMY MEMPHIS (DEFENSE LOGISTICS AGENCY)			
SITE 1	FIRE RESERVIOR	RI/FS	C

TRUST TERRITORIES

Site Name	Description	Project	Priority
** WAKE ISLAND AIRFIELD (AF)			
SITE 19	IND. LANDFL. FTA	RI	C
SITE 1500	1500 LIQUID FUEL STORAGE	RI	B
SITE 1700	1700 LIQUID FUEL STORAGE	RI	B
SITE 1800	1800 LIQUID FUEL STORAGE	RI	B
SITE FT 01	AIRFIELD SITE 7	RI	B
SITE FT 02	AIRFIELD SITE 13	RI	C
SITE FT 03	AIRFIELD SITE 14	RI	C

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

TRUST TERRITORIES

Site Name	Description	Project	Priority
SITE LF 01	AIRFIELD SITE 10	RI	B
SITE LU 01	AIRFIELD SITE 9	RI	B
SITE OT 01	AIRFIELD SITE 4	RI	B
SITE OT 02	AIRFIELD SITE 5	RI	B
SITE OT 03	AIRFIELD SITE 8	RI	B
SITE OT 04	AIRFIELD SITE 11	RI	B
SITE OT 05	AIRFIELD SITE 12	RI	B
SITE SS 01	AIRFIELD SITE 6	RI	B
SITE SS 02	AIRFIELD SITE 15	RI	B

TEXAS

Site Name	Description	Project	Priority
** CORPUS CHRISTI AD (ARMY)			
SITE 1	HAZARDOUS WASTE DUMP SITE	RA	C
** FORT BLISS (ARMY)			
SITE 1	FIRE FIGHTING TRAINING AREA	RA	B
** LONE STAR AAP (ARMY)			
SITE 5	MIGRATION MANAGEMENT	RUFS	A
SITE 6	OLD DEMOLITION GROUNDS	RUFS	A
SITE 7	OLD WELLS AND CISTERNS	RUFS	A
** LONGHORN AAP (ARMY)			
SITE 2	BURNING GROUND NO. 3	RUFS	C
SITE 3	UNLINED EVAPORATION POND	RA	C
** NAS CHASE FIELD (NAVY)			
SITE .	FIRE FIGHTING TRAINING AREA	RUFS	B
SITE 1	NW RUBBLE DISP. AREA	RUFS	B
SITE 2	SE DISP. AREA	RUFS	B
SITE 3	OLD FIRE FIGHTING TRAINING AREA	RUFS	C
** NAS CORPUS CHRISTI (NAVY)			
SITE .	FUEL FARM 216	RU/RA	B
SITE 1	DPOO LNDFL	RUFS	B
SITE 3	CCAD LIQUID WASTE DISP AREA	RUFS	B
SITE 9	NORTH GATE DISPOSAL AREA	RUFS	B
** NAS DALLAS (NAVY)			
SITE 1	FORMER FIRE FIGHTING TRAINING AREA	RUFS	B
SITE 4	RUBBLE LANDFILL	RUFS	B
SITE 5	PCB LEAK	RUFS	B
SITE 9	PAINT STRIPPING AREA	RUFS	B
SITE 11	TANG AREA DRAINAGE DITCH	RUFS	B
** NAS KINGSVILLE (NAVY)			
SITE 1	SEWAGE TREATMENT PLANT LNDFL	RUFS	C
SITE 2	AVGAS FUEL FARM N	RU/RA	C
SITE 3	TRANS. MTR POOL	RUFS	C
SITE 6	FIRE FIGHTING TRAINING AREA	RUFS	C
SITE 8	LANDFILL	RUFS	C
SITE 10	WASTE POL/SOLVENT DISP	RUFS	C
** NWMP DALLAS (NAVY)			
SITE 1	W DRAINAGE LAGOON	RUFS	B
SITE 2	E DRAINAGE LAGOON	RUFS	B

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

TEXAS

Site Name	Site No.	Description	Project	Priority
SITE	4	FORMER ACID NEUT. PIT	RI/FS	C
SITE	5	IWC PIPELINE LEAK	RI/FS	C
SITE	6	FORMER REFUSE BURN PIT	RI/FS	C
SITE	7	W. OIL BURNER & DRUM AREA	RI/FS	B
SITE	8	IND SLUDGE DRUM STOR.	RI/FS	B
SITE	9	FIREBRICK BURIAL SITE	RI/FS	C
SITE	10	WASTE POL SPILL	RI/FS	B
** HWIRP MCGREGOR (NAVY)				
SITE	2	AREA F-WEST SETTLING PONDS	RI/FS	B
SITE	3	AREA F-STOCK POND	RI/FS	B
SITE	5	AREA G-PEST. DUMP	RI/FS	B
SITE	6	AREA L ASBESTOS PILE	RI/FS	B
SITE	7	AREA L-TNT WASHOUT LAGOONS	RI/FS	B
SITE	9	AREA M-NORTH POND	RI/FS	B
SITE	12	AREA-M TNT WASHOUT PITS	RI/FS	B
** BERGSTROM AFB (AF)				
SITE	23	FTA	RA/RD	B
** BROOKS AFB (AF)				
SITE	FT 01	FPTA 2	RI	C
SITE	FT 03	FPTA 3	RI	C
SITE	LF 01	LANDFILL 1	RI	C
SITE	LF 02	LANDFILL 2	RI	C
SITE	LF 03	LANDFILL 3	RI	C
SITE	LF 04	LANDFILL 4	RI	C
SITE	LF 05	LANDFILL 5	RI	B
SITE	LF 06	LANDFILL 6	RI	B
SITE	WP 01	LIQUID FUEL SLUDGE DISPOSAL	RI	B
** CAMSWELL AFB (AF)				
SITE	01	LANDFILL 1	RI	B
SITE	02	LANDFILL 2	RI	C
SITE	03	LANDFILL 3	RI	C
SITE	04	LANDFILL 4	RI	B
SITE	05	LANDFILL 5	RI	B
SITE	06	LANDFILL 6	RI	C
SITE	10	WASTE BURIAL AREA	RI	B
SITE	11	FTDA 1	RI	C
SITE	12	FTDA 2	RI/RD	B
SITE	13	FLIGHTLINE DRAINAGE DITCH	RI/RA	B
SITE	14	PESTICIDE RINSE AREA	RI	C
SITE	15	ENTOMOLOGY DRY WELL	RI	B
SITE	16	UNNAMED STREAM	RI	B
SITE	17	POL TANK FARM	RI/RD	B
SITE	OT 01	WEAPONS STORAGE AREA, INSPECTION SHOP	RI	B
** JYESS AFB (AF)				
SITE	FT 01	FIRE TRAINING AREA 1	RI	B
SITE	FT 02	FIRE TRAINING AREA 2	RI	C
SITE	LF 01	LANDFILL/POL SLUDGE DISP AREA 2	RI	B
SITE	OT 01	EVAPORATION PIT, WASTE TANK	RI	B
SITE	OT 02	N DIVERSION DITCH 2	RI	B
SITE	OT 03	S DIVERSION DITCH 1	RI	C
SITE	WP 01	POL SLUDGE PIT AREA 1	RI	C

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

TEXAS

Site Name	Description	Project	Priority
** ELLINGTON AFB (AF)			
SITE SS 01	SPILL NEAR BLDG 1287	RI	B
** KELLY AFB (AF)			
SITE D-2	LANDFILL	RI/FS	A
SITE D-4	LANDFILL	RI/FS	A
SITE D-6	LANDFILL	RI	A
SITE E-1	CHEMICAL EVAPORATION PIT	FS	A
SITE S-2	DPDO STORAGE YARD	RI/FS	A
SITE S-3	MAINTENANCE STORAGE AREA	RI	A
SITE S-4	FUEL SPILL AREA	FS	A
SITE S-6	FUEL SPILL AREA	RI	A
SITE S-7	HERBICIDE STORAGE AREA	RI	A
SITE FC-1	FCTA	RI	A
SITE FC-2	FCTA	RI	A
SITE IS-1	STILL SPILL AREA	RI	A
SITE RD-1	RADIOACTIVE DISPOSAL AREA	RI	A
SITE RD-2	RADIOACTIVE DISPOSAL AREA	RI	A
SITE SA-2	SLUDGE SPREADING AREA	RI	A
SITE SA-3	SLUDGE SPREADING AREA	RI	A
SITE SD-2	SLUDGE DRYING BED	RI	A
SITE LU 01	GREEN WORM AREA	RA/RD	A
SITE WP 01	CS-1, WASTE SITE	RI	A
** SHEPPARD AFB (AF)			
SITE 01	TELCON MANHOLE 5	RI/FS	C
SITE FT 01	FPTA 1	RI/FS	C
SITE FT 02	FPTA 3	RI/FS	C
SITE FT 03	FPTA 2	RI	C
SITE LF 01	LANDFILL #3 AND HARDFILL	RI/FS	C
SITE LF 02	LANDFILL 1	RI	C
SITE LF 03	LANDFILL 2	RI	C
SITE LU 01	BLDG 2017 BEA ABANDONED UST	FS	C
SITE LU 02	BLDG T-35 IEA ABANDONED UST	FS	C
SITE LU 03	BLDG 990 1 EA ABANDONED UST	FS	C
SITE LU 04	BLDG 2543 90 EA ABANDONED UST	FS	C
SITE LU 05	UST BLDG 920	RI/FS	C
SITE OT 01	PESTICIDE SPRAY AREA	RI	C
SITE WP 01	WASTE PITS	RI/FS	B
SITE WP 02	INDUSTRIAL WASTE PIT	RI	C

UTAH

Site Name	Description	Project	Priority
** DUGWAY PROVING GROUND (ARMY)			
SITE 1	OPEN PITS	RA	C
SITE 2	DUMP SITE		C
** TOOELE AD (ARMY)			
SITE 2	INDUSTRIAL WASTE POND	RI/FS	A
SITE 5	PITS (UNKNOWN NUMBER)	RI/FS	A
SITE 6	MUSTARD HOLDING AREA	RI/FS	A
SITE 7	EXPLOSION CRATERS	RI/FS	A

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

UTAH

Site Name	Description	Project	Priority
SITE 8	WINDOWS	RI/F/S	A
SITE 9	CAMDS	RI/F/S	A
SITE 10	GRAVEL PIT	RI/F/S	A
SITE 11	DRAINAGE PONDS	RI/F/S	A
SITE 12	SPOIL AREA	RI/F/S	A
** AFP NO.78, CORINNE (AF)			
SITE S 01	S1	RI/F/S	C
SITE S 02	S2	RI/F/S	C
SITE S 03	S3	RI/F/S	C
SITE S 04	S4	RI/F/S	C
SITE OT 01	FRENCH DITCH	RI/F/S	C
SITE OT 02	N. DRAINAGE DITCH	RI/F/S	B
SITE OT 03	X-O-MAT WASTEWATER DISCHARGE AREA 1	RI/F/S	C
SITE OT 04	X-O-MAT WASTEWATER DISCHARGE AREA 2	RI/F/S	C
** HILL AFB (AF)			
SITE 07	ECO BURN SITE	RI	A
SITE 08	SPOIL PIT	RI	A
SITE 09	PERIMETER ROAD	RI	A
SITE 10	SWAMP LEACH FIELD	RI	A
SITE 11	POND 3	RI	A
SITE 19	US ARMY TOOELE RAIL SHOP	RI	A
SITE FT 01	FPTA 1	RI	A
SITE LF 01	LANDFILL 1	RI/F/S	A
SITE LF 02	LANDFILL 2	RI/F/S	A
SITE LF 03	LANDFILL 3	RI/F/S	A
SITE LF 04	LANDFILL 4	RI/F/S	A
SITE LF 05	LANDFILL 5-UTTR, SITE 6	RI	A
SITE LU 01	B22 UNDER GROUND TANKS	RI	A
SITE OT 01	HERBICIDE ORANGE TEST PLOT	RI	A
SITE OT 02	IWTP DRYING BED	RI/F/S	A
SITE OT 03	LITTLE MTN. DRYING BEDS	RI/F/S	A
SITE OW 01	BAMBURGER POND	RI	A
SITE SS 01	JP-4 SPILL REFUELING AREA	RI	A
SITE SS 02	SODIUM HYDROXIDE SPILL	RI/F/S	A
SITE WP 01	BERMAN POND	RI	A
SITE WP 02	CHEMICAL DISPOSAL PIT 3	RI/F/S	A
SITE WP 03	CHEMICAL DISPOSAL PIT 1 & 2	RI/RA	A
** ODOU OGDEN (DEFENSE LOGISTICS AGENCY)			
SITE 1	FORMER LANDFILLS	RI/F/S	A

VIRGINIA

Site Name	Description	Project	Priority
** FORT A.P.HILL (ARMY)			
SITE 3	DRUXIN CLEANUP SITE	RA	C
SITE 5	MO POL AREA	RI/F/S	C
SITE 6	DRY BRIDGE WAREHOUSE AREA	RI/F/S	C
** FORT EUSTIS (ARMY)			
SITE 1	HELICOPTER MAINTENANCE AREA	RI/F/S	C
SITE 3	SEVERAL OLD LANDFILLS	RI/F/S	C

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

VIRGINIA

Site Name	Description	Project	Priority
** WOODBRIDGE RESEARCH FACILITY (ARMY)			
SITE 2	PCB BURIAL SITE	P-RA	C
** FCTC DAM NECK (NAVY)			
SITE 1	REGULUS LNDFL	RVFS	B
SITE 2	FORMER PCB STOR.	RVFS	B
SITE 5	PW DISPOSAL AREA	RVFS	B
SITE 6	FORMER PESTICIDE SHOP	RVFS	B
** MCDEC QUANTICO (NAVY)			
SITE 4	OLG LNDFL	RVFS	B
SITE 5	OLD BATCH PLANT	RVFS	B
SITE 7	RECENTLY CLOSED LANDFILL	RVFS	B
SITE 17	ARSENIC DISPOSAL AREA	RVFS	B
** NAB LITTLE CREEK (NAVY)			
SITE -	SEWAGE TREATMENT PLANT LNDFL	RVFS	B
SITE -	LAUNDRY WASTE STORAGE AREA	RVFS	B
SITE 7	AMPHIB BASE LNDFL	RVFS	B
SITE 9	DRIVING RANGE LNDFL	RVFS	B
SITE 11	SCHOOL OF MUSIC PLATING	RVFS	C
SITE 13	PW COMP PCP DIP TANK AND WASH	RVFS	B
** NAS NORFOLK (NAVY)			
SITE 1	PCB FIRE CONTAM	RA	B
** NAS OCEANA (NAVY)			
SITE -	OLD STATIC ENGR TEST CELL HG SPILL	RVFS	B
SITE 1	WEST WOODS OIL DISP PIT	RVFS	C
SITE 2	LINE SHACK OIL PIT	RVFS	B
SITE 7	FIFTH GREEN	RVFS	C
SITE 8	M. STATION LNDFL	RVFS	C
SITE 14	LNDFL	RVFS	B
** NRTF DRIVER (NAVY)			
SITE 1	LANDFILL	RVFS	C
SITE 5	PCB SPILL	RVFS	C
SITE 8	SERVICE STATION GAS LEAK	RVFS	C
** NSC CHEATHAM ANX WILLIAMSBURG (NAVY)			
SITE 1	LANDFILL NEAR INCINERATOR	RVFS	C
SITE 9	TRANSFORMER STOR AREA	RVFS	B
SITE 10	DECON AGNT DISP NEAR 1ST	RVFS	C
SITE 11	BONE YD	RVFS	B
SITE 13	SLUDGE FARM	RVFS	B
SITE 14	TANK BOTT	RVFS	C
SITE 15	TANK BOTT	RVFS	B
SITE 16	TANK BOTT	RVFS	C
SITE 17	TANK BOTT	RVFS	C
SITE 18	TANK BOTT	RVFS	C
SITE 19	TANK BOTT	RVFS	B
SITE 20	TANK BOTT	RVFS	B
SITE 21	TANK BOTT	RVFS	B
SITE 22	TANK BOTT	RVFS	C
SITE 23	TANK BOTT	RVFS	C
SITE 24	TANK BOTT	RVFS	C
SITE 25	TANK BOTT	RVFS	C
SITE 26	TANK BOTT	RVFS	B

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

VIRGINIA

Site Name	Description	Project	Priority
SITE 27	FUEL PIT AT B21	RI/FS	B
SITE 31	ABANDON NSFO TANKS	RI/FS	B
** NSC NORFOLK (NAVY)			
SITE -	AVGAS ON GROUND NEAR TANK 275	RI/FS	B
SITE 1	BALLAST DISP. LAGOONS	RI/FS	C
SITE 2	OILY SLUDGE LANDSPREAD	RI/FS	C
SITE 3	OILY SLUDGE PIT	RI/FS	C
SITE 4	WASTE OIL DRUM STORAGE AREA	RI/FS	C
SITE 5	UNDERGROUND PIPE SPILL AREA	RI/FS	B
** NSWC DAHLGREN (NAVY)			
SITE 5	1400 AREA LANDFILL	RI/FS	B
SITE 9	DISPOSAL/BURN AREA	RI/FS	B
SITE 10	MERC. CONT.	RI/FS	B
SITE 12	CHEM BURN PIT	RI/FS	B
SITE 19	TRANSFORMER DRAINING	IR/RA	B
SITE 25	PESTICIDE RINSING	RI/RA	B
** NWS YORKTOWN (NAVY)			
SITE 1	DUDLEY RD LANDFILL	RI/FS	B
SITE 2	TURKEY RD LANDFILL	RI/FS	B
SITE 3	GRP 16 MAG LANDFILL	RI/FS	B
SITE 4	BURNING PAD RESIDUE LNDFL	RI/FS	B
SITE 5	SURPLUS TRANSFORMER STORAGE	RI/FS	B
SITE 6	EXPLOSIVES CONT. WW IMPOUNDMENT	RI/FS	B
SITE 7	PLANT J EXPL. CONT. WW	RI/FS	B
SITE 9	EXPL. CONT. WW	RI/FS	B
SITE 11	ABANDONED EXPLOSIVES BURNING PIT	RI/FS	C
SITE 12	BARRACKS ROAD LANDFILL	RI/FS	B
SITE 16	WEST RD LNDFL	RI/FS	B
SITE 17	HOLM RD LNDFL	RI/FS	B
SITE 18	BLDG 476 DISCHARGE	RI/FS	B
SITE 19	CONVEYOR BELT SOILS AT BLDG 10	RI/FS	C
** PWC NORFOLK (NAVY)			
SITE 4	P-71 TRANSFORMER STORAGE AREA	RA	B
** LANGLEY AFB (AF)			
SITE 04	FUEL SATURATED AREA	RA/RO	C
** DGSC RICHMOND (DEFENSE LOGISTICS AGENCY)			
SITE 1	FORMER AREA 50 LANDFILL	RI/FS	A
SITE 4	FIRE TRAINING PITS	RA	A

VERMONT

Site Name	Description	Project	Priority
** BURLINGTON ANG (AF)			
SITE 01	FOTA AND OLD LNDFL	RI/FS	B

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

WASHINGTON

Site Name	Description	Project	Priority
** FORT LEWIS (ARMY)			
SITE 2	FIRE PIT/EOD RANGE	RI/FS	A
SITE 3	LANDFILL 5	RI/FS	A
** NAS WHIDBEY ISLAND (NAVY)			
SITE -	RUNWAY DITCHES AFCCA	RI/FS	A
SITE -	SEAPLANE BASE LANDFILL	RI/FS	A
SITE 2	WESERN HIGHLAND LANDFILL	RI/FS	A
SITE 3	1969-1970 LANDFILL	RI/FS	A
SITE 4	WALKER BARN STORAGE AREA	RI/FS	C
SITE 5	HIGHWAY 20/HOFFMAN ROAD LANDFILL	RI/FS	C
SITE 6	CURRENT LANDFILL	RI/FS	A
SITE 13	FUEL FARM 3	RI/FS	A
SITE 14	PESTICIDE RINSEATE DISPOSAL	RI/FS	A
SITE 16	RUNWAY DITCHES	RI/FS	A
SITE 17	OLD AULT FIELD COAL PILE	RI/FS	A
SITE 18	AULT FIELD NOSE HANGARS	RI/FS	A
SITE 19	FUEL TRUCK DEPOT	RI/FS	A
SITE 20	AULT FIELD SEWAGE CLARIFIER	RI/FS	A
SITE 21	BOILER PLANT OIL SPILL	RI/FS	A
SITE 22	HANGAR 5	RI/FS	A
SITE 23	NW APRON AREA	RI/FS	A
SITE 24	BUILDING 253 OIL TANK	RI/FS	A
SITE 25	BLDG 120 TRANSFORMER SERVICE AEA	RI/FS	A
SITE 26	ABANDON AULT FIELD OIL TANKS	RI/FS	A
SITE 27	1966 FIRE SCHOOL	RI/FS	A
SITE 28	CHAPEL FIRE SCHOOL	RI/FS	A
SITE 29	CLOVER VALLEY ROAD FIRE SCHOOL	RI/FS	A
SITE 31	RUNWAY FIRE SCHOOL	RI/FS	A
SITE 32	BLDG 889 TRANSFORMER SERVICE	RI/FS	A
SITE 35	FUEL FARM 2	RI/FS	A
SITE 36	FUEL FARM 1	RI/FS	A
SITE 37	ABANDONED SEAPLANE BASE OIL TANK	RI/FS	A
SITE 38	SEAPLANE BASE, SEWAGE CLARIFIER	RI/FS	A
SITE 39	AUTO SHOP	RI/FS	A
SITE 40	SEAPLANE BASE COAL PILE	RI/FS	A
SITE 41	BLDG 25&26 DISPOSAL AREA	RI/FS	A
SITE 42	GAS TANK LEAK	RI/FS	A
SITE 43	SEAPLANE BASE GAS STATION	RI/FS	A
SITE 44	SEAPLANE NOSE HANGAR	RI/FS	A
SITE 45	TCE TANK	RI/FS	A
SITE 48	SALVAGE YARD	RI/FS	A
** NSB BANGOR (NAVY)			
SITE -	MANCHESTER PCB CONT.	RI/FS	B
SITE -	MANCHESTER LEAD CONT.	RI/FS	B
SITE 5	METALLURGY FAC RUBBLE	RI/FS	C
SITE 6	OLD CISTERN FILLED W/ GREEN LIQUID	RI/FS	A
SITE A	EOD TEST RANGE	RI/FS	A
SITE B	FLORAL PT	RI/FS	A
SITE D	FORMER CONDANCE BURNING	RI/FS	A
SITE E	OLD ACID PIT	RI/FS	A
SITE F	DEMIL WASTE DISP. SITE	RI/FS	A

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

WASHINGTON

Site Name	Description	Project	Priority
SITE F	DEMIL OPS. WW DISP. SITE	R/FS	A
SITE 11	BURIED PESTICIDES	R/FS	A
SITE 12	DUNNAGE CANYON	R/FS	A
SITE 24	LIQUID WASTE INCIN.	R/FS	A
SITE 25	DINITROBENZENE AREA	R/FS	A
SITE 101	FORMER WW DISCHAR.	R/FS	A
SITE 103	GARBAGE AND ORDNANCE DISP. AREA	R/FS	A
** NSY PUGET SOUND (NAVY)			
SITE 6	CONTAMINATED DREDGE MATERIAL	RA	C
** NUWES KEYPORT (NAVY)			
SITE	BURIED IMHOFF TANKS	R/FS	A
SITE 1	LANDFILL	R/FS	A
SITE 2	VAN METER REDISPOSAL	R/FS	A
SITE 9	LIBERTY BAY SHORELINE	R/FS	A
SITE 10	NORTH END LANDFILL-INDIAN ISLAND	R/FS	A
SITE 21	BLDG 86 FILL-INDIAN ISLAND	R/FS	A
** FAIRCHILD AFB (AF)			
SITE FT 01	FIRE TRAINING AREA	RD	B
SITE SS 03	PS-2 REFUELING PITS 18 & 19	RD	B
SITE SS 04	PS-3 AREA C PUMPHOUSE FUELING	RD	B
SITE SS 05	PS-4 PUMPHOUSE B	RD	B
SITE SW 01	BASE LANDFILL NW OF T/W6	RD	B
SITE SW 08	BASE LANDFILL AT CRAIG RD	RD	B
SITE WP 01	OB-1 OLAA 25 ADS, MICA PEAK JSS	RD	B
SITE WP 02	WW-1 INDUSTRIAL WASTE LAGOON	RD	B
** MCCORD AFB (AF)			
	NON-SITE LTM	RA	B
SITE 04	RE-EVALUATE GW	RI	B
SITE A 01	BURIAL PIT	RA	B
SITE A 02	AMERICAN LAKE GARDENS LANDFILL	RA	B
SITE A 34	JP-4 SPILL SITES 34 AREA A	RA	B
SITE A 46	JP-4 SPILL SITES 46 AREA A	RA	B
SITE C 37	SITE C37 POL SPILL/DISPOSAL	RA	B
SITE C 42	C42 FUEL SPILL	RA	B
SITE C 54	C54 LEACH PIT	RA	A
SITE C 57	LEACH PIT C-57	RA	B
SITE C 60	LEACH PIT C-60	RA	B
SITE C 61	LEACH PIT C-61	RA	B
SITE C 62	C-62 LEACH AREA	RA	B
SITE E 10	E10 AERATION OF SOIL	RA	B
SITE E 49	E49 AERATION OF SOIL	RA	B
SITE E 50	AREA E SITE 50 FUEL SPILL	RA	B
SITE E 51	E51 AERATION OF SOIL	RA	B
SITE LF 01	SAMPLE DRUM REMOVAL	RA	B

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

WISCONSIN

Site Name	Description	Project	Priority
** BADGER AAP (ARMY)			
SITE 3	NC LAGOONS AND DRAINAGE DITCH	RI/FS	C
SITE 4	ROCKET AREA	RA	C
SITE 5	OLD ACID COMPLEX		C
SITE 16	COMPOSTING DEMO	RA	C

WEST VIRGINIA

Site Name	Description	Project	Priority
** WELDON SPRINGS CHEMICAL PLANT (ARMY)			
SITE 1	WSCP- DOE/DA MOU	RI/FS	B
** WEST VIRGINIA ORDNANCE WORKS (ARMY)			
SITE 2	TNT AREA	RA	A
SITE 3	BURNING GROUNDS	RA	A
SITE 4	PROCESS SEWER LINES	RI/FS	A
SITE 5	YELLOW WATER/ACID AREA	RA	A
SITE 6	RED WATER RESVRS AREA	RA	A
SITE 7	POND B AREA	RA	A

WYOMING

Site Name	Description	Project	Priority
** F.E. WARREN AFB (AF)			
SITE 01	SITE 1. BLDG 400 MOGAS SPILL	RI	B
SITE 02	SITE 2. BLDG 810 SPILL	RI	B
SITE 03	SITE 3. BLDG 700 SPILL	RI	C
SITE 04	BLDG 1250 SPILL	RI	A
SITE 05	SITE 5. BLDG 138 SPILL	RI	C
SITE 06	SITE 6. BLDG 316 SPILL	RI	C
SITE FT 01	FPTA 1	R/RD	B
SITE FT 02	FPTA 2	RI	B
SITE LF 01	LANDFILL 2	RI	B
SITE LF 02	LANDFILL 3	RI	B
SITE LF 03	LANDFILL 4	RI	B
SITE LF 04	LANDFILL 5	RI	B
SITE LF 05	LANDFILL 6	RI	B
SITE OT 01	ACID DRY WELL WEST OF BLDG 826	R/RD	B

TAB D

Status Report of DoD Sites Proposed for the National
Priority List, March 1987

STATUS REPORT
OF
DOD SITES
PROPOSED FOR THE
NATIONAL PRIORITY LIST
MARCH 1987

ALABAMA

Alabama Army Ammunition Plant, Childersburg
Anniston Army Dept, Anniston

CALIFORNIA

Castle Air Force Base, Merced
Mather Air Force Base, Rancho Cordova
McClellan Air Force Base, Sacramento
Moffett Naval Air Station, Sunnyvale
Norton Air Force Base, San Bernadino
Sacramento Army Depot, Sacramento
Sharpe Army Depot, Lathrop

COLORADO

Rocky Mountain Arsenal, Adams County

DELAWARE

Dover Air Force Base, Dover

GEORGIA

Robins Air Force Base, Houston County

ILLINOIS

Joliet Army Ammunition Plant, Joliet (2 sites)
Savanna Army Depot Activity, Savanna

LOUISIANA

Louisiana Army Ammunition Plant, Doyline

MAINE

Brunswick Naval Air Station, Brunswick

MARYLAND

Aberdeen Proving Grounds (2 sites)

MINNESOTA

Air Force Reserve Base, Twin Cities

MISSOURI

Lake City Army Plant, Independence

NEBRASKA

Cornhusker Army Ammunition Plant, Hall County

NEW JERSEY

Fort Dix, Wrightstown
Naval Air Engineering Center, Lakehurst
Naval Weapons Station Earle, Colts Neck

NEW YORK

Griffiss Air Force Base, Rome

Oklahoma

Tinker Air Force Base, Oklahoma

OREGON

Umatilla Army Depot, Hermiston

PENNSYLVANIA

Letterkenny Army Depot, Chambersburg (2 sites)
Naval Air Development Center, Warminster (8 areas)

TENNESSEE

Milan Army Ammunition Plant, Milan

TEXAS

Air Force Plant No. 4, Fort Worth
Lone Star Army Ammunition Plant, Texarkana

UTAH

Hill Air Force Base, Ogden
Ogden Defense Depot, Ogden
Tooele Army Depot, Tooele

VIRGINIA

Defense General Supply Center, Chesterfield County

WASHINGTON

Bangor Ordnance Disposal, Bremerton
Fort Lewis, Tacoma
McChord Air Force Base, Toacoma
Naval Air Station, Whidbey Island (2 sites)
Naval Underseas Warfare Station, Keyport

This report still utilizes terminology developed under the DoD Installation Restoration Program (IRP). The IRP was changed in 1986 to use National Contingency Plan (NCP) terminology and procedures. Future revisions of this report will utilize NCP terminology.

TERMINOLOGY

<u>DoD Installation Restoration Program Phases</u>	<u>National Contingency Plan Remedial Steps</u>
I. Installation Assessment	Preliminary Assessment and Site inspection.
II. Confirmation Study (including Feasibility Study for Army and Navy)	Remedial Investigation and Feasibility Study (all services)
III. Technology Development	No equivalent step. Reported separate as RD&D
IV. Remedial Action (including Feasibility Study for Army and Air Force)	Remedial Action (including RA design and appropriate removal actions*)

*The EPA differentiates between removals and remedial actions while the services report them together under the general term "Remedial Action".

DOD IRP SITES

<u>St</u>	<u>Name</u>	<u>HRS</u>	<u>Comment</u>
AL	ALABAMA ARMY AMMUNITION PLANT	36.83	Phase I was completed in 1978, and Phase II begun in 1985. The plant operated from 1942 to 1945. Contamination is with di- and trinitrotoluene in ground and surface water. Surface water also has lead contamination. Cleanup has been completed in one area that had been sold, but then leased back to the government for the purpose of decontaminating and removing equipment. Next action expected is asbestos removal and demolition of excessed administrative buildings.

Phase I	Phase II	Phase IV
Done	Begun	Remedial Action Begun

12/31/78 08/01/85 08/01/86

AL	ANNISTON ARMY DEPOT (SE IND AREA)	51.91	Phases I, II, and III have been completed at the "Tank and Antitank Center of the Free World". The groundwater has been found contaminated with metals and trichloroethylene. Wastes and contaminated soils have been excavated and removed to a RCRA-permitted facility. An air stripper is being installed, and three other systems for elimination of volatiles and phenolics are being designed. Contracts for three groundwater treatment systems are scheduled for award in FY87.
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Phase I	Phase II	Phase IV
Done	Begun	Remedial Action Begun

07/01/78 01/01/81 09/01/82

<u>St</u>	<u>Name</u>	<u>HRS</u>	<u>Comment</u>
CA	CASTLE AIR FORCE BASE	37.93	Phase I, now completed, identified 26 sites. Phase II is in progress. Phase IV was begun in 1984 to replace the trichloroethylene-contaminated on-base drinking water supply with a new potable water well drawing from a deeper, uncontaminated aquifer.
	Phase I Done	Phase II Begun	
	10/01/83 08/01/84		
CA	MATHER AIR FORCE BASE (AC&W DISPOSAL SITE)	28.90	Phase I is complete, with 23 sites identified. Phases II and III, begun in July 1982, are being conducted concurrently, with field work to have begun in 1985. \$80K was made available in 1985 to provide a new permanent water supply to 36 residences affected by trichloroethylene contamination of an on-base water well. Phase IV was scheduled for 1986, with an estimated total cost of \$5M.
	Phase I Done	Phase II Begun	
	01/06/82 08/01/83		
CA	MCCLELLAN AIR FORCE BASE (GROUND WATER CONT)	57.93	Phase I, now completed, identified 47 sites with potential trichloroethylene and/or dichloroethylene contamination. Remedial action has begun. Estimated total cost is \$100M.
	Phase I Done	Phase II Begun	
	07/01/81 05/01/84		

<u>St</u>	<u>Name</u>	<u>HRS</u>	<u>Comment</u>
CA	NAVAL AIR STATION MOFFETT	-	Phase I has been completed at Moffett NAS, and a contract has been awarded for Phase II. The major contaminants in the groundwater are volatile organic compounds. Moffett is working with State regulatory agencies in their effort to incorporate an area-wide approach to cleanup efforts in the South Bay Area of San Francisco.
	Phase I Done	Phase II Begun	Phase IV Remedial Action
	04/01/84	11/01/84	

CA	NORTON AIR FORCE BASE	39.65	Phase I was completed October 1982, Phase II March 1985. Phase IV for lagoon closure and sludge removal was initiated in FY1985. Twenty sites were identified as containing hazardous wastes, eleven having a high potential for contaminant migration. Trichloroethylene was detected in concentrations exceeding California drinking water standards. All base wells were contaminated to various degrees with silver and perchloroethylene.
	Phase I Done	Phase II Begun	
	10/01/82	08/01/83	

St Name HRS Comment

CA SHARPE ARMY DEPOT 42.24 A 1980 records search at this former Army maintenance facility, followed by a 1981-1982 survey, revealed di- and trichloroethylene contamination and evidence of possible off-post migration and local well contamination. Bottled water was provided and the well closed. A geophysical survey completed in early 1984 failed to pinpoint contamination sources on-post. Two contracts were awarded to meet State requirements for contaminant source location, off-post monitoring, groundwater modelling, groundwater treatment, and source mitigation with an estimated completion date of the studies in mid-1985. The groundwater treatment plant became operational in 1986. A groundwater RI/FS was begun 11/81. A soil RI/FS was begun 8/86. A Hot Spot treatment system was placed in limited operation in FY 1986, at a cost of \$918k. Progress has been delayed due to persistent conflict with the California Regional Water Quality Control Board (CRWQCB) and consequent difficulty in obtaining access and entry for off-post monitoring wells. A Cleanup and Abatement Order was issued by the CRWQCB in 1/86. An IAG is currently being negotiated with EPA.

Phase I Done	Phase II Begun	Phase IV Remedial Action Begun
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01/01/80 11/01/81 01/01/86

St Name HRS Comment

CO ROCKY MOUNTAIN
ARSENAL

58.15 Phase I was completed in 1976 and Phase II is ongoing. The RI/FS has been extended by approximately one year in order to comply with SARA and litigation coordination requirements, and to accommodate unprogrammed data gathering requirements. Since 1942 the arsenal has been used for manufacture of chemical warfare items, demilitarization of chemical agents, and destruction of obsolete ordnance. Certain portions were leased for the manufacture of pesticides and herbicides. The Army has identified 165 "possibly polluted" areas on the arsenal, and intends to implement its cleanup strategy at an estimated cost of \$760M. The Army intends to drain the liquid hazardous wastes from Basin F in FY87.

Phase I	Phase II	Phase IV
Done	Begun	Remedial Action Begun

01/01/76

St Name	HRS	Comment
DE DOVER AIR FORCE BASE	35.89	Phase I is complete and Phase II under way at Dover AFB. Base operations, begun 1942, have generated numerous wastes including paints, solvents, and oils. These were disposed of in various on-base locations; some buried in drums, others through the storm drainage system. Groundwater onsite is contaminated with arsenic and other metals, and an on-site stream with trichloroethylene. The base well is free of contaminants found in the groundwater.

Phase I Done	Phase II Begun	Phase IV Remedial Action Begun
10/01/83	05/01/84	09/01/85

10/01/83 05/01/84 09/01/85

St Name HRS Comment

GA ROBINS AIR FORCE 51.66 Phase I was completed in 1982, Phase II begun in
BASE 1984. Phase IV, with an estimated cost of \$10.9M,
was begun in 1985. Thirteen areas contain
hazardous wastes from past disposal activities
such as landfills, sludge lagoons; fire training
areas, petroleum products and chemical spills, and
hazardous waste disposal sites. Twelve potential
contamination sources were identified in Phase I.
Tri- and tetrachloroethylene have been detected in
groundwater near the site, and phenols in surface
water on the site.

Phase I	Phase II	Phase IV
Done	Begun	Remedial Action Begun

04/01/82 04/01/84 04/01/85

<u>St</u>	<u>Name</u>	<u>HRS</u>	<u>Comment</u>
LA	LOUISIANA ARMY AMMUNITION PLANT	30.26	Phase I is complete and Phase II under way. The hazardous waste site is 16 one-acre settling pits that remove explosive materials from treatment water. Soil, and surface and groundwater are contaminated with di- and trinitrotoluene, phenols, tetryl, and cadmium. An initial RI was completed 2/83, the follow-on RI on 1/31/87. RA for an explosive-contaminated lagoon is set for FY88. An FS task is to be awarded in 3QFY87 after EPA/State review of the RI.

Phase I Done	Phase II Begun	Phase IV Remedial Action Begun
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01/01/79 02/01/83

<u>St</u>	<u>Name</u>	<u>HRS</u>	<u>Comment</u>
MD	ABERDEEN PROVING GROUNDS (EDGEWOOD AREA)	-	Phase I was completed in 1977, and Phase II is ongoing. The area has conducted chemical research programs, manufactured chemical agents, and tested, stored, and disposed of toxic materials. Essentially every land portion in this area is contaminated or potentially contaminated. Substances disposed of include Napalm, white phosphorus, mustard, chloroacetphenone, hydrogen cyanide, cyanogen chloride, adamsite, lewisite, VX, Tabun, Sarin, and Soman. In 1977-1978 an environmental monitoring program was conducted; results indicated contamination of surface- and groundwater. Four standby water supply wells were removed from service in 1983 because of detected VOCs. The Army is continuing to monitor surface- and groundwater and has undertaken a detailed geohydrological study. Cleanup is being addressed in the installation's RCRA permit.

Phase I Done	Phase II Begun	Phase IV Remedial Action Begun
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12/01/77

MD	ABERDEEN PROVING GROUNDS (MICHAELSVILLE LANDFILL)	-	Phase I was completed in 1983. Phase II is ongoing. Contaminants including lead, mercury, chromium, benzene, and triethyl phosphate were detected in the groundwater on this 20-acre site. Environmental contamination survey and assessment have been performed and surface- and groundwater monitoring is being performed in areas of suspected contamination. Cleanup is being addressed in the installation's RCRA permit. See entry at ABERDEEN PROVING GROUNDS (EDGEWOOD AREA) for further information.
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Phase I Done	Phase II Begun	Phase IV Remedial Action Begun
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12/01/83

<u>St</u>	<u>Name</u>	<u>HRS</u>	<u>Comment</u>
ME	NAVAL AIR STATION BRUNSWICK	-	Seven areas were used in the past for storage or disposal of hazardous wastes, including solvents, transformer oil, pesticides, and asbestos. Surface- and groundwater, and adjacent wetlands are threatened by these contaminants. Study is in progress to identify contaminants and determine their migration paths.

Phase I	Phase II	Phase IV
Done	Begun	Remedial Action Begun

06/01/83 09/01/84

St Name HRS Comment

MN TWIN CITIES AIR 35.00 Phase I (records search) was completed March 1983.
 FORCE RESERVE BASE Phase II (hydrogeological investigation) is under
 (SMALL ARMS LF) way. The base is within and adjacent to the
 Minneapolis-St. Paul International Airport
 Complex. Support activities there have included
 industrial operations such as maintenance and
 corrosion control shops. The landfill, used from
 1963 to 1972, covers somewhat less than three
 acres along the Minnesota River. It is 500 ft.
 from the northern boundary of the Minnesota Valley
 National Wildlife Refuge. General base refuse and
 paint sludge and filters were disposed of there.
 Dichloroethylene, in above-background
 concentrations has been found in a monitoring well
 on the landfill. The site is subject to periodic
 flooding, which has lead to release of chromium,
 lead, and zinc into the Minnesota River.

Phase I Phase II Phase IV
 Done Begun Remedial
 Action
 Begun

03/01/83 08/01/84 01/01/89

St Name HRS Comment

NE CORNHUSKER ARMY
AMMUNITION PLANT

51.13 The plant, built in 1942 as an ammunition load and pack facility, has been operated intermittently since. Groundwater was identified in 1981-1982 as contaminated by explosive compounds (di- and trinitrotoluene, RDX), with high levels at installation's boundary. Drinking water wells in Grand Island were affected. Bottled water was supplied (1/84 through 6/86), a municipal water system for the northwestern area of Grand Island was built (8/84 through 6/86), and a groundwater dewatering system installed (8/84 through 6/86). A soil incineration system for \$6.4M is being procured. Groundwater is being monitored semiannually, dewatering system discharge is being monitored weekly during operations. Hazardous wastes in several contaminated sites will be removed and incinerated in FY87.

Phase I Done	Phase II Begun	Phase IV Remedial Action Begun
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03/01/82 06/01/81 01/01/84

<u>St</u>	<u>Name</u>	<u>HRS</u>	<u>Comment</u>
NJ	FORT DIX (LANDFILL SITE)	37.40	VOC contamination exists at a landfill used between 1950 and 1984 by both Fort Dix and McGuire AFB.
	Phase I Done	Phase II Begun	Phase IV Remedial Action Begun
	09/01/76 01/01/86		

NJ	NAVAL AIR ENGINEERING CENTER LAKEHURST	-	<p>Phase I was completed in 1983 and II begun 1985. Activities at NAEC Lakehurst resulted in discharge into drainage ditches of oily sludge, solvents, and water soluble hydraulic fluids potentially containing the carcinogen nitronoxine. Substantial quantities, in excess of one million gallons, of fuels such as AVGAS, JP-5 fuel, and condensate mixed fuel, have been discharged or spilled at various locations and into dry wells, resulting in a 6-inch overlayer of JP-5 fuel on the groundwater in some locations. Unknown quantities of contaminated aviation fuels were received at the tetraethyl lead disposal site, whose soil and shallow ground water are contaminated. Unknown quantities of waste oils, battery acids, and solvents are suspected of having been discharged into some drywells. The soil stabilization field test site has received 362 gallons of aniline and 161 of furfural (toxic by ingestion, inhalation, or skin absorption), and ferric chloride solution, with potential danger to personnel and animals who come in contact with the soils in this area. A sanitary landfill received thousands of gallons of hydraulic fluids, about five tons of asbestos, and unknown quantities of cutting oils, solvents, sludge, and heavy metals. A site used for PCB storage and testing is near the environmentally sensitive Ridgeway Branch. The western portion of NAEC Lakehurst is potentially contaminated with ordnance, including 3-inch shells, gas loaded projectiles, chemicals such as phosgene, phosphorus, and mustard gas, explosives, flares, and depth bombs. Due to the highly permeable nature of soils at NAEC the shallow aquifer in this area may be contaminated and the potential for contamination and migration exists.</p>
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Phase I Done	Phase II Begun	Phase IV Remedial Action Begun
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03/01/83 02/01/85

NJ NAVAL WEAPONS
STATION EARLE
(SITE A)

- Munitions have been handled, stored, renovated, and transshipped at Earle. Also nonordnance activities, radiological operations, material storage, and waste disposal operations have been conducted there. Wastes generated include ordnance materials grit and paint, zinc, lead, titanium, and ammonium picrate. Analysis of a limited number of sediment and surface water samples detected contamination. Phase I is completed and Phase II is under way.

Phase I	Phase II	Phase IV
Done	Begun	Remedial Action Begun

03/01/83 01/01/85

<u>St</u>	<u>Name</u>	<u>HRS</u>	<u>Comment</u>
OK	TINKER AIR FORCE BASE (SOLDIERS CREEK / BLDG 3001)	42.24	Phase I, completed in 1984, identified 14 locations containing hazardous wastes. Disposal sites contain POL sludge, oil solvents, heavy metals, mercury, phenols, and other industrial waste. Some base wells were closed due to chlorinated solvent contamination. Chlorinated solvents were also detected in the aquifer which is the primary regional water source. Phase II investigation confirmed VOC's at all sites with limited migration.

Phase I	Phase II	Phase IV
Done	Begun	Remedial Action Begun

09/01/83 09/01/84

St Name HRS Comment

OR UMATILLA ARMY
DEFOT (LAGOONS)

31.36 Past demilitarization and disposal operations has resulted in groundwater beneath dry lagoons being contaminated with RDX and nitrates. The dry lagoons have RDX, trinitrotoluene, nitrate, DDT, lindane, and tri- and tetrachloroethylene contamination. No migration potential was detected in 1980. RI plan development was started in 1987 as part of a Chem Demil Part B Permit application. An RI task is to be awarded 3QFY87 or 4QFT87, depending on EPA input.

Phase I Done	Phase II Begun	Phase IV Remedial Action Begun
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03/01/80

St	Name	HRS	Comment
TN	MILAN ARMY AMMUNITION PLANT	58.15	A facility that removes explosives from munitions by injecting high pressure stream of hot water and steam had discharged its effluent into unlined settling ponds. Sediments were routinely dredged and stored on the ground. The ponds were lined in 1981 and the sediments placed in the lined ponds. Explosives and heavy metals have been found in on-site water supply and monitoring wells. The ponds have been closed. Groundwater is being monitored annually (\$101.8K).
	Phase I Done	Phase II Begun	Phase IV Remedial Action Begun
	11/01/78	08/01/81	01/01/83

<u>St</u>	<u>Name</u>	<u>HRS</u>	<u>Comment</u>
TX	AIR FORCE PLANT NO. 4 (GENERAL DYNAMICS)	39.92	Contamination in a creek near this GOCO installation was discovered in 1983. A private consultant identified 10 sites with potential hazardous waste contamination, primarily trichloroethylene. Four sites have been cleaned up.
	Phase I Done	Phase II Begun	Phase IV Remedial Action Begun
	08/01/84	02/01/85	04/01/85

TX	LONE STAR ARMY AMMUNITION PLANT	-	The plant is a GOCO producing a variety of explosives and munitions. Explosives were disposed of by detonation above- and below-ground in a five-acre area during the 1930's. Army tests indicate that heavy metal contamination is present in wells south of the disposal site. Phase I is complete and Phase II under way. A contamination study was conducted 5/80 through 9/83 at a cost of \$355K, and a well/cistern contamination study 9/86 through 11/86 at a cost of \$43K.
	Phase I Done	Phase II Begun	Phase IV Remedial Action Begun
	07/01/78	12/01/86	

<u>St</u>	<u>Name</u>	<u>HRS</u>	<u>Comment</u>
UT	TOOELE ARMY DEPOT (NORTH AREA)	38.32	Spills and leaks of oils, solvent; paint, explosives, and photographic chemicals may have contaminated the groundwater. Arsenic, nickel, lead, and chlorinated hydrocarbons have been found in the groundwater beneath one waste pond, explosives in the soil and groundwater beneath a TNT washout pond, and high arsenic levels in the groundwater throughout the South Area.

Phase I Done	Phase II Begun	Phase IV Remedial Action Begun
06/01/80	01/01/86	

06/01/80 01/01/86

St Name HRS Comment

VA DEFENSE GENERAL
SUPPLY CENTER

-

The Center's mission is to manage and furnish military general supplies to the Armed Forces and several Federal civilian agencies. Contamination from several old landfill sites on the Center has migrated to the boundary of the installation. Several hazardous wastes associated with the site, including chloroform, methylene chloride, dichlorobenzene, tetrachloroethylene, and chromium have been found contaminating groundwater on- and offsite. Domestic water of the Center is not affected by contamination. Phase I is complete and Phase II under way.

Phase I	Phase II	Phase IV
Done	Begun	Remedial Action Begun

08/01/81 03/01/82

<u>St</u>	<u>Name</u>	<u>HRS</u>	<u>Comment</u>
WA	BANGOR ORDNANCE DISPOSAL	-	Over two million pounds of explosive ordnance have been demilitarized at Bangor Ordnance Disposal. Surface and shallow groundwater are contaminated with RDX and TNT. A small residential community lies to the north in the direction of groundwater flow. An initial assessment study, completed in 1983, concluded that further investigation is needed at the ordnance disposal site and other sites of the facility.

Phase I Done	Phase II Begun	Phase IV Remedial Action Begun
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06/01/83 11/01/84

WA	FORT LEWIS (LANDFILL #5)	42.78	Prior to the mid-1970s, wastes resulting from industrial operations such as maintenance of aircraft and vehicles, refurbishing of weapons, and neutralization of caustic paint-stripping wastes were disposed of in on-site landfills. Hazardous wastes such as spent solvents, plating wastes, pesticides, and PCBs may have been disposed of at these sites. Hazardous chemicals have been detected and monitoring wells have been installed.
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Phase I Done	Phase II Begun	Phase IV Remedial Action Begun
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12/01/83

St NAME

**NA NAVAL AIR STATION
WHIDBEY ISLAND
(AULT)
(SEAPLANE)**

- Phase I was completed 1984, Phase II begun 1985. NAS Whidbey Island occupies four separate areas on the island, which it shares with the City of Oak Harbor. Landfills at Ault Field, in use since 1959, were used for liquid wastes including paints and solvents, oils, heavy metals, pesticides, and caustic wastes. A 12 acre fuel farm at the Seaplane Base has been in use since the 1940's, and Building 49 has been used as an automotive repair and paint shop since 1960 or earlier. Past disposal practices have created the potential for groundwater contamination. Transformer maintenance activities resulted in disposal on the ground of about 1000 gallons of transformer fluid, at several locations, some of which may have been PCB. Pentachlorophenol drips and spills have occurred at the site of a PCP dip tank. Other ground maintenance activities have resulted in discharge of waste oil, solvents, fuel, and caustic rinseate containing heavy metals, through the storm sewer system and into Dugella Bay. Waterfowl and fish that feed or live in the drainages may be affected. There is potential contamination of the food chain that may threaten the occasional bald eagle and peregrine falcon that visit the area. Subsurface migration at the Seaplane Base may have impacted fish or shellfish populations in Oak and Crescent Harbors. A sea level unconfined aquifer underlies most of the island and is the primary and sole source of water for most of rural Whidbey Island. The EPA has designated the aquifer as a sole source aquifer for purposes of new development. The City of Oak Harbor and the Ault Field facilities, unlike most of the island, import fresh water by pipeline from the mainland. Two wells are maintained as backup. One, Well No. 4 at Ault Field, is threatened by potential migration of contaminants.

Phase I Done	Phase II Begun	Phase IV Remedial Action Begun
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09/01/84 11/01/85

ST NAME HRS Comment

WA NAVAL UNDERSEA
WARFARE
ENGINEERING
STATION KEYPORT

- NUWES Keyport is on a peninsula that it shares with the town of Keyport. On the north and east it is bounded by Liberty Bay and a shallow lagoon; on the west, by Dogfish Bay. A seven-acre landfill was the primary industrial waste disposal area from the 1930's to 1973. Before being filled it was a saltwater marsh, an extension of the tidal flats which are part of Dogfish Bay. Another site was the scene of a several thousand gallon spill of plating baths in 1976, with washdown into the soil, a creek, and the shallow lagoon. The tide flats and Dogfish Bay are used for recreational fishing and shellfish gathering. Dogfish Bay is also used commercially for oyster growing. Contamination associated with the prior use includes acid plating wastes with heavy metals and cyanides, waste paints, solvents, and thinners, Otto Fuel, pesticide rinseates, and contaminated wastewater treatment plant sludge. The geology is dominated by glacial till, outwash clays, and gravel. A shallow sea level aquifer and a deeper sand and gravel aquifer underlie the base. Two wells at NUWES tap the lower sand and gravel aquifer. These wells are not contaminated. However, past practice has probably contaminated portions of the sea level aquifer. Past disposal practices have discharged pollutants directly to Liberty Bay and a saltwater marsh, with potential contamination of water sediments and biota off-station and potential impacts on fish and shellfish in Liberty and Dogfish Bays.

Phase I Done	Phase II Begun	Phase III Remedial Action Begun
09/01/84	11/01/85	

TAB E

Report of the DoD/EPA/DOE Working Group to Explore
Hazardous Waste Technology Cooperative Efforts,
December 1986



REPORT OF THE
DOD/EPA/DOE WORKING GROUP
TO EXPLORE HAZARDOUS WASTE
TECHNOLOGY COOPERATIVE EFFORTS

DECEMBER 1986

REPORT OF THE
DOD/EPA/DOE WORKING GROUP
TO EXPLORE
HAZARDOUS WASTE TECHNOLOGY
COOPERATIVE EFFORTS

PEER Consultants, Inc.
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December 1, 1986

In 1985, a DOD/EPA working group was established to address the issues of the high cost of hazardous waste cleanup in this country; the need for innovative technology development to achieve in a more cost-effective manner the necessary cleanup goals, and; the technology development which is taking place within DOD and EPA and the need to cooperate and coordinate these efforts. As a result, 31 joint projects were proposed, most of which have received funding and are currently in progress.

To continue the dialogue begun in 1985, the working group, joined this year by DOE, met on June 11-12, 1986 to discuss:

- o the hazardous waste research and cleanup priorities within each agency;
- o the progress made on last year's efforts;
- o possible new cooperative efforts, and;
- o EPA's Superfund Innovative Technology Evaluation (SITE) program and DOD's and DOE's possible involvement in the program.

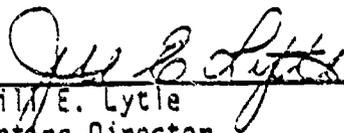
The following report is the second annual report on the cooperative efforts program. Our original goal remains the same: to encourage the use of emerging hazardous waste cleanup technologies.



Carl J. Schafer
Deputy Assistant
Secretary of Defense (Environment)
Office of the Secretary of Defense



Vaun A. Newill
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EXECUTIVE SUMMARY

In Spring 1985, a joint Department of Defense (DOD)/Environmental Protection Agency (EPA) working group was formed by the direction of Carl J. Schafer, Jr. and Dr. Bernard D. Goldstein, to discuss the possibility of cooperative efforts in hazardous waste cleanup demonstrations and innovative technology research and development. As a result of two meetings held in 1985, 31 joint projects were proposed, 15 of which were already in progress. The joint efforts have resulted in considerable quality improvements and cost savings.

Due to the success of last year's meetings and in an effort to continue the cooperation between federal agencies on hazardous waste cleanup, EPA sponsored another working group meeting held on June 11-12, 1986. Representatives from DOD, EPA, and the Department of Energy (DOE) attended and discussed the progress of last year's proposed joint efforts, recommended new joint efforts, and discussed EPA's Superfund Innovative Technology Evaluation (SITE) Program.

Last year's efforts were reviewed and updated by DOD and EPA; many of the projects have continued to receive funding and are currently in progress. In addition, over 50 new cooperative efforts were proposed by DOD, EPA and DOE representatives. All of the on-going and newly-proposed cooperative efforts projects are listed in Table 1; a description of each project is given in Appendix A. Costs and estimates are provided for planning purposes only.

EPA's SITE Program and the development of innovative hazardous waste cleanup technologies were topics of discussion at the meeting. The SITE program has been set up to encourage the development of innovative cleanup technologies both in the private and public sectors by providing the opportunity to demonstrate developed technologies at actual hazardous waste sites. A steering group (pg. 21, Fig. 6) was formed to discuss ways in which the SITE program could be structured to streamline the technology-demonstration site matching process. Background information on the SITE program is presented in Appendix B.

Table 1

DOE/EPA/DOE HAZARDOUS WASTE COOPERATIVE EFFORTS

CATEGORY	PROJECT (a Cooperative Effort in Progress)	PAGE NO.	DOO	COORDINATORS EPA	DOE
In-Situ Treatment					
- Detoxification (Chemical & Biological)	01. Groundwater Treatment Tech.	A-1	Mahannah (USATHAWA) Bartell (USATHAWA) Heyse (AFESC)	Lewis (INJERL) Hill (INJERL) James (INJERL) Hill (INJERL)	Bauman (ORIL) Bauman (ORIL)
	02. Microbial Degrad. - Soils & GJ	A-2			
	03. RF Thermal Decontamination	A-3	Downey (AFESC)	Rogers (INJERL)	Bauman (ORIL)
	04. TCE Aerobic Degradation (ASKERL)	A-4	Ashworth (AFESC)	Duntap (ASKERL) Wilson (ASKERL)	Bauman (ORIL)
	05. Fuel Oil Microbial Degradation	A-5	Chan (NCEL)	James (INJERL) Hill (INJERL)	
	06. Biodegrad. to Restore Aquifers	A-6	Powers (NCEL)	Kealey (ASKERL)	Bauman (ORIL)
	7. Soil Bioreactor	A-7	Walker (AFESC)	Wilson (ASKERL)	Bauman (ORIL)
- Extraction	08. Aqueous	A-8	Heyse (AFESC)	Dial (INJERL) James (INJERL) Hill (INJERL)	Bauman (ORIL)
	9. Extract. of VOCs from Soils	A-9	Wynne (USATHAWA) Downey (AFESC) Powers (NCEL)	de Fercin (INJERL)	Bauman (ORIL)
On-Site Cleanup					
- Thermal	01. Catalytic Destruct. of VOCs	A-10	Ashworth (AFESC)	Tichenor (EPA)	
- Chemical	02. Mobile Carbon Regenerator	A-11	Mahannah (USATHAWA) Bartell (USATHAWA)	Traver (EPA) Hill (INJERL)	
- Extraction	3. Aqueous-Based Decont. of Excav. Soils	A-12	Downey (AFESC)	Freestone (EPA) Hill (INJERL)	Bauman (ORIL)
- Biological	4. Surface-Based Treat. of Contam. GJ	A-13	Ashworth (AFESC)	Dunlap (ASKERL)	Bauman (ORIL)
- Solid Reduction					
Containment					
- Barriers	01. Bentonite Clay Barriers	A-14	Strang (INJERL) Quintrell (USATHAWA)	Grube (INJERL) Hill (INJERL)	
	2. Foams to Abate Tox. Gas Releases	A-15	Den Bleyker (AFESC)	Brugger (EPA) Hill (INJERL)	Bauman (ORIL)
	3. RCRA-Design Landfill Cover	A-16	Bartell (USATHAWA) Downey (AFESC)	Hill (INJERL)	Burton (ORIL)
- Storage	4. Double-Liner System	A-17	Downey (AFESC) Riggins (NCEL) Powers (NCEL) Francenques (Army) Palmer (AEO) Peters (AFESC)	Hill (INJERL) Hartley (INJERL)	Burton (ORIL)
- Stabilization	5. Stabil. of Waste at Superfund Sites	A-18		Sanning (INJERL)	Burton (ORIL)

Table 1, cont.

CATEGORY	PROJECT (a Cooperative Effort in Progress)	PAGE NO.	DOO	COORDINATORS EPA	DOE
<i>Site Assessment</i>					
- Sampling & Analysis	1. Sampling Method for Resid. Pestic 2. Stability and Holding Times	A-19 A-20	Ryan (USATINAWA) Lang (USATINAWA)	Johnson (AEERL) Bottrell (EMSL-LV) Williams (EMSL-LV)	Parker (ORNL) Maskarinec (ORNL) Burton (ORNL)
- Monitoring	3. Organo-Tin Analysis 4. Stat.-Defined Toxicity Gradients	A-21 A-22	Akerlind (AFESC) Yaroschak (NFEC) Seligman (NOSC) Collins (USARDEC) Hana (Fl. Lewis)	Koutsandreas (DADEM0A) Billits (EMSL-LV) Peterson (ERL-Corvallis) Miller (ERL-Corvallis) Flatman (EMSL-LV) Quinn (ORD) Koutsandreas (DADEM0A)	
	5. In-Situ Monitoring of Organics	A-23	Riggins (CERL) Lang (USATINAWA) Walker (AFESC) Lombard (AF-SGPA)		Bauman (ORNL)
	6. Monitor DOO Haz. Waste	A-24	Lombard (AF-SGPA)	Weber (EMSL-Cin) Lichtenburg (EMSL-Cin)	Strickler (DOE-HQ) Burton (ORNL) Horne (ORNL)
	7. Monitoring & QA	A-25	Wynne (USATINAWA) Akerlind (AFESC)	Pearson (EMSL-LV) Winter (EMSL-Cin) Puzak (EMSL-RTP) Molan (AEERL)	Parker (ORNL)
	8. On-Line Cont. Emission Monitoring	A-26	Joshi (AFESC)		
- Risk Assessment	9. Health Impacts of Mixtures 10. Uncertain. of Carcin. RA	A-27 A-28	Lombard (AF-SGPA) Shelley (AF-MIRL) Haugle (GASD)	Condie (HERL) Berry (ECAD-RTP) Chen (EPA)	
	11. RA Methodology 12. Waterborne Contaminants	A-29 A-30	Shelley (AF-MIRL) Rosenblatt (USATIBORL) Lombard (AF-SGPA) Shelley (AF-MIRL)	Quinn (ORD)	Burton (ORNL) Layton (LLHL) Burton (ORNL)
	13. RA for DOO-impacted Estuaries	A-31	Johnston (NOSC) Adema (Navy-UES) Butler (Army-UES) Dortch (Army-UES)	Amrose (ERL-Athens) McCutcheon (ERL-Athens)	
- Remote Sensing & Detection	14. In-Situ Detect. of Organics	A-32	Lang (USATINAWA) Walker (AFESC) Lieberman (Navy) Roberts (NCEL) Wynne (USATINAWA) Swann (USATINAWA) Reyse (AFESC)	Koutsandreas (DADEM0A) Eccles (EMSL-LV)	Bauman (ORNL)
	15. Aerial Photography 16. Geophysics Field Invest.	A-33 A-34		Holle (EPA-EPIC) Pitchford (EMSL-LV)	
- Subsurface Transport	17. Hydrophobic Compounds 18. Organics from Aircraft Paint Strip.	A-35 A-36	Astworth (AFESC) Law (NCEL)	Piwoni (RSKERL) Scalf (RSKERL)	

Table 1, cont.

CATEGORY	PROJECT (a Cooperative Effort in Progress)	PAGE NO.	DDO	COORDINATORS EPA	DOE
Site Assessment, cont.					
- Data Management	19. Data Management & Mapping	A-37	Holly (USATHMVA) Roberts (USATHMVA)	Koutsandreas (DADENIDA) Landers (EMSL-LV) Berry (ECAO-RTP)	
	20. Toxicology Guide	A-38	Lombard (AF-SGPA) Shelley (AMRL)		
	21. Hazardous Waste Data Base	A-39		Dial (INJERL) Lee (INJERL)	Fore (ORIL)
	22. HAFS II	A-40	Lombard (AF-SGPA) Sanders (USAF-OEHL)		Baronhouse (ORIL) Smith (ORIL) Burton (ORIL) Bauman (ORIL)
	23. Multimedia Pollution Control	A-41	Bartell (USATHMVA) Reard (USATHMVA) Peters (AFESC) Gibbs (NSMC Dahlgren) Olsh (NCEL)	Wilmoth (WERL) Burckle (WERL) Darvin (AEERL)	
	24. EM4 Systems	A-42	Lingua (NCEL) Elliott (NCEL) Walker (AFESC)		Pitchford (EMSL-LV) Burton (ORIL)
	25. Genetic Tox. Data	A-43	Bartell (USATHMVA) Barkley (USAMBROL) Henry (USAMBROL)		Williams (EMSL-LV) Pearson (EMSL-LV) Burns (ERL-Athens) Holm (ERL-Athens)
	26. EC2 System for Wetlands	A-44	Pierce (DQA/COE)		
- Site Management	27. Federal Workshop	A-45	Offenbuttel (AFESC)	Dial (INJERL) Lee (INJERL)	Steehan (DOE-GR)
	28. Contaminants in Marine Environments	A-46	Yamanoto (HOSC) Setigman (HOSC)	Koutsandreas (DADENIDA) Jaworski (ERL-Harragansett) Gentile (ERL-Harragansett)	
High Hazard Wastes					
- Dioxins/Furans	01. APEG Reagents	A-47	Heyse (AFESC)	Dial (INJERL) Rogers (INJERL)	
- PCBs	02. PCB Conten. at PAC, Guam	A-48	Olson (HFEC) Chan (NCEL)	des Rosiers (OEET) Dial (INJERL) Rogers (INJERL)	
	03. PCB Electrochem. Decant.	A-49	Lingua (NCEL)	des Rosiers (OEET) Westfall (INJERL) Dial (INJERL) des Rosiers (OEET)	

Table 1, cont.

CATEGORY	PROJECT (* Cooperative Effort in Progress)	PAGE NO.	DDO	COORDINATORS EPA	DOE
Alternative Technologies to Land Disposal					
- Thermal Destruction of	1. Hazardous Waste Incineration	A-50		Freestone (HMERL) Ponder (AEERL) Hill (HMERL)	Parker (ORNL) Parker (ORNL)
	2. Process Microwave Heating	A-51	Sisk (USATHAWA) Downey (AFESC)		
	3. Low NOx Incinerator	A-52	Fu (HCEL)	McSorley (AEERL)	Parker (ORNL)
	4. Destruct. of PCB Residues	A-53	Bartell (USATHAWA) Peters (AFESC)	Darvin (AEERL)	Parker (ORNL)
	5. Co-firing Haz. Waste in Navy Boilers	A-54	Zimmerle (HCEL)	Lee (HMERL)	Burton (ORNL)
	6. Infrared Incineration	A-55	Knudsen (HSMC) Lingua (HCEL) Powers (HCEL)	Lee (HMERL)	Parker (ORNL)
- Chemical	7. Heavy Metal Extraction	A-56	Hangaland (USATHAWA)	Howell (HMERL) Dial (HMERL)	
- Recycle & Reuse	8. Supercritical Water Oxidation	A-57		Hill (HMERL)	Burton (ORNL)
	9. Paramagnetic Separation	A-58	Zachritz (AFESC)	Dial (HMERL)	Burton (ORNL)
	10. Waste Acid Detox. & Reclamation	A-59	Wynne (USATHAWA) Peters (AFESC)	Dial (HMERL) Christian (HMERL)	Bauman (ORNL)
	11. By-Product Expert System	A-60	Zimmerle (HCEL)	Christian (HMERL)	Burton (ORNL)
- Substitution	12. Process Material Substitution	A-61	Riggins (CERL) Peters (AFESC) Riggins (CERL) Peters (AFESC) Roberts (HCEL)	Christian (HMERL)	Bauman (ORNL)
Undelegated Storage Issues					
- Leak Detection	01. Leak Detection Methods	A-42	Boice (OSD)	Field (HMERL) Hill (HMERL)	
- Monitoring	2. External Monitoring	A-53	Bindal (AFESC) Randall (DL...)	Van Ee (EMSL-LV)	McBrayer (ORNL)
- Cleanup					

TABLE OF CONTENTS

	<u>Page</u>
Executive Summary	v
List of Figures	xi
Background	1
Meeting Minutes	1
Session 1: Overview of Each Agency's Hazardous Waste Program	1
Session 2: Overview of Technological Problems and Progress	8
Session 3: Overview and Discussion of EPA's SITE Program	11
Session 4: Review of 1985 Cooperative Efforts	13
Session 5: Discussion of Proposed New Cooperative Research Efforts	16
Session 6: EPA's SITE Program and DOD/DOE Involvement	19
Appendix A: DOD/EPA/DOE Hazardous Waste Cooperative Efforts	A-1
Appendix B: EPA's SITE Program	8-1

LIST OF FIGURES

<u>Title</u>	<u>Page</u>
Figure 1: Meeting Agenda	2
Figure 2: EPA Attendees	3
Figure 3: DOD Attendees	4
Figure 4: DOE Attendees	6
Figure 5: Overview of EPA Research in Monitoring and Quality Assurance	9
Figure 6: Steering Group to Discuss EPA's SITE Program	21
Figure 7: SITE Demonstration Technologies	22

REPORT OF THE
DOD/EPA/DOE WORKING GROUP
TO EXPLORE
HAZARDOUS WASTE TECHNOLOGY
COOPERATIVE EFFORTS

BACKGROUND

The interagency working group to explore hazardous waste cooperative efforts was first formed in 1985 when representatives from the Department of Defense (DOD) and the Environmental Protection Agency (EPA) met to discuss possible joint demonstration projects in hazardous waste technology and site remediation to more cost-effectively handle the hazardous waste problems faced by both agencies. As a result, 31 joint projects were proposed, many of which have received funding and are currently in progress. In an effort to continue the interagency dialogue on hazardous waste problems, the EPA hosted another working group meeting on June 11-12, 1986, attended by representatives from DOD, EPA, and the Department of Energy (DOE). An abbreviated meeting agenda is listed in Figure 1; the meeting attendees from each agency are listed in Figures 2 through 4. The meeting minutes and the joint projects which were discussed are presented in this report.

MEETING MINUTES

Session 1: Overview of Each Agency's Hazardous Waste Program

EPA--

John Skinner, Director of the EPA Office of Environmental Engineering and Technology, was the meeting moderator and opened Session 1 by welcoming all attendees especially those from DOE, the newest member of the working group. Mr. Skinner spoke briefly about EPA's funding problems until the CERCLA (Superfund) is approved by Congress, but was optimistic that once funding was approved, EPA's Superfund Innovative Technology Evaluation (SITE) program could proceed. Additional programs are also planned in the health-related and groundwater areas.

DOD--

Thomas Dashiell, Director of Environmental and Life Sciences for DOD/OUSDRE, gave the opening comments for DOD. Mr. Dashiell stated that hazardous waste management is emerging as an important issue in DOD; a stable effort is being made as evidenced by continued funding support and a five-year planning phase. An effort is being made, also, to coordinate activities within DOD between the Army, Navy, and Air Force.

DOD recognizes that they have a problem with contaminated sites at some of their facilities and are searching for solutions. DOD strongly supports any cooperative efforts which can be made with EPA and DOE. Mr. Dashiell suggested looking to European technology, as well, because it tends to be cheaper than American technology.

FIGURE 1
MEETING AGENDA

June 11

- Session 1: Statement from EPA/DOD/DOE Principal Representative
- Session 2: Overview of technological problems and progress in the area of hazardous waste. A discussion of technological needs and associated problems and solutions of each Agency.
- Session 3: Overview and discussion of EPA's Superfund Innovative Technology Evaluation (SITE) Program
- Session 4: Review and discussion of the progress on the first year's cooperative efforts

June 12

- Session 5: Discussion of proposed new cooperative research efforts
- Session 6: Discussion of EPA's SITE Program and DOD's and DOE's potential involvement

FIGURE 2

EPA ATTENDEES AT THE JUNE 11-12, 1986
HAZARDOUS WASTE WORKING GROUP MEETING

U.S. EPA Headquarters, 401 M Street, S.W., Washington, D.C. 20460

Mr. Paul E. des Rosiers 202/382-2722
Office of Environmental Engineering and Technology, EPA/ORD

Ms. Linda Galen 202/382-7929
Office of Emergency and Remedial Response/HRSD, EPA/OSWER

Mr. John D. Koutsandreas 202/382-5789
Office of Acid Deposition, Environmental Monitoring and Quality
Assurance, EPA/ORD

Mr. Alfred Lindsey 202/382-4073
Deputy Director,
Office of Environmental Engineering and Technology, EPA/ORD

Mr. Herbert Quinn 202/382-5940
Water and Land Division
Office of Environmental Processes and Effects Research, EPA/ORD

Mr. John Skinner 202/382-2600
Director,
Office of Environmental Engineering and Technology, EPA/ORD

Mr. Henry R. Thacker 202/382-5747
Office of Environmental Engineering and Technology, EPA/ORD

U.S. EPA Hazardous Waste Engineering Research Lab, Cincinnati, OH 45268

Mr. Ronald Hill FTS/684-7861
Land Pollution Control Division
Office of Environmental Engineering and Technology

U.S. EPA Environmental Monitoring Systems Lab, P.O. Box 15027, Las Vegas, NV
89114

Mr. J. Gareth Pearson 702/798-2383
Quality Assurance and Methods Development Division, EPA/EMSL-LV

U.S. EPA Research Triangle Park, NC 27711

Mr. Joe McSorley 919/541-2920
Air and Energy Engineering Research Laboratory

Mr. Wade Ponder 919/541-2818
Air and Energy Engineering Research Laboratory

FIGURE 3

OOD ATTENDEES AT THE JUNE 11-12, 1986
HAZARDOUS WASTE WORKING GROUP MEETING

Office of the Secretary of Defense

Mr. Thomas R. Dashiell 202/697-8714
Director, Environmental and Life Sciences
OURDR & E, Room 3D129, The Pentagon
Washington, DC 20301-3080

Lt. Col. Dennis F. Naugle 202/653-1273
Assistant Director, Environmental Policy
OASD/A&L, Room 3D833, The Pentagon
Washington, DC 20301

Mr. William Randall 202/274-6124
Defense Logistics Agency
Cameron Station, VA 22304

Mr. S. Matthew Prastein 202/653-1273
DELP
1717 H Street, N.W., Suite 202
Washington, DC 20006

U.S. Army

Mr. Clemens Meyer 202/272-0259
Army Corps of Engineers, DAEN-ROM
20 Massachusetts Avenue, N.W.
Washington, DC 20314-1000

Mr. David G. Palmer 202/694-3434
Department of the Army, DAEN-ZCE
Washington, DC 20310-2600

Mr. Robert Bartell 301/671-2054
Chief, Environmental R&D Section

Mr. Daniel Lillian 301/671-2054

Mr. Dennis J. Wynne 301/671-2466
Chief, Technology Division
USATHAMA
Aberdeen Proving Ground, MD 21009

FIGURE 3

DOD ATTENDEES AT THE JUNE 11-12, 1986
HAZARDOUS WASTE WORKING GROUP MEETING
(Continued)

U.S. Navy

Lcdr. Daniel Spiegelberg 202/325-0435
Mr. Dave Olson 202/325-8176
Mr. Brian Higgins 202/325-8176
Naval Facilities Engineering Command
200 Stoval Street
Alexandria, VA 22332

Ms. Mary Lingua 805/982-3310
NCEL L70PM
Port Hueneme, CA 93043

Mr. Peter Seligman 619/225-7697
Naval Ocean Systems Center
Marine Environment Branch (Code 522)
San Diego, CA 92107

U.S. Air Force

Lt. Col. Robert Lombard, USAF, BSC 202/767-1736
HQ USAF/SGPA
Bolling AFB
Washington, DC 20332-6188

Lt. Col. Robert F. Olfenbuttel, USAF, BSC 904/283-2097
Chief, Environics Division
Maj. Thomas J. Walker, USAF, BSC 904/283-4628
Chief, Environmental Engineering Branch
HQ, AFESC/RDV
Tyndall AFB, FL 32403-6001

FIGURE 4

DOE ATTENDEES AT THE JUNE 11-12, 1986
HAZARDOUS WASTE WORKING GROUP MEETING

U.S. DOE/Headquarters, Washington, DC 20545

Mr. Gerald H. Daly 202/353-4971
Defense Programs, DP-124

Ms. Jill Lytle 202/353-3641
Director, Defense Waste and Transportation Management, DP-12

Mr. Bob Strickler FTS/252-4160
Office of Environmental Audit/Compliance

U.S. DOE/ORD, Oak Ridge National Laboratory, Oak Ridge, TN 37831

Mr. L. Dean Eyman 615/574-7299
FEDC, P.O. Box Y

Mr. Richard Genung 615/574-6830
P.O. Box P, Bldg. K-1000

Mr. Robert Sleeman 615/676-0715
P.O. Box E

U.S. DOE, Idaho Operations Office, 550 2nd Street, Idaho Falls, ID 83401

Mr. Isamu Aoki 208/526-0583
Mr. H.D. Williams 208/526-1763

U.S. DOE, Pacific Northwest Laboratories, Battelle Blvd., Richland, WA 99352

Mr. T.J. McLaughlin 509/375-3723

U.S. DOE, Savannah River Laboratory, Aiken, SC 29808

Mr. Donald E. Gordon 803/725-5182

Ms. Debbie S. Browning 803/725-5543
DOE-SR
P.O. Box A
SRL Aiken, SC 29801

U.S. DOE, San Francisco Operations Office, 1333 Broadway, Oakland, CA 94612

Mr. Gerald Katz 415/273-6353

U.S. DOE, Chicago Operations Office, 9800 S. Cass Ave., Argonne, IL 60439

Mr. William J. Griffing 312/972-2241

FIGURE 4

DOE ATTENDEES AT THE JUNE 11-12, 1986
HAZARDOUS WASTE WORKING GROUP MEETING
(Continued)

U.S. DOE, Albuquerque Operations Office, P.O. Box 5400, Albuquerque, NM 87115

Mr. James F. Bresson 505/722-3401
Waste Management & Transportation Development Division

Mr. Randy F. Reddick 505/846-4340
ESH/D

DOE--

Jill Lytle, Director of DOE's Office of Defense Waste and Transportation Management, spoke for the DOE and also welcomed the opportunity for cooperative efforts with EPA and DOD. She stated that the DOE's primary hazardous waste problem is disposal of radioactive waste. Any joint demonstration and research opportunities are welcomed by DOE and they are seeking cost-effective long-term solutions to their hazardous waste problems.

Session 2: Overview of Technological Problems and Progress

EPA/HWERL--

Ronald Hill, Director of EPA's Land Pollution Control Division of the Hazardous Waste Engineering Research Laboratory (HWERL) located in Cincinnati, Ohio, presented several of the problems which are actively being confronted by EPA including land banning and leaking underground storage tanks (UST). Land banning or the restriction of certain wastes from landfills is leading to research in alternative disposal methods including incineration, chemical/physical treatment, fixation processes, and pre-treatment before disposal.

Underground storage tanks are now recognized as a major contributor to soil and groundwater contamination particularly petroleum storage tanks. Research efforts are being outlined and will include internal leak detection methods, improved design, installation, and selection of underground storage tanks, and remedial actions for leaking underground storage tanks.

In conclusion, Mr. Hill stated that the research trends at EPA/HWERL are in the areas of alternative technologies for in-situ treatment and disposal of hazardous waste.

EPA/AEERL--

Mr. Wade Ponder, from EPA's Air and Energy Engineering Research Laboratory (AEERL) in Research Triangle Park, North Carolina, presented an overview of AEERL's current research efforts. Research is being done in the areas of in-situ treatment of sulfur sludges, in-situ cleanup of VOCs and waste oil, containment (ponds and pond liners), site assessment, air quality standards for air emissions, and alternative hazardous waste combustion technologies. The AEERL also offers support to HWERL in their leaking underground storage tank research.

EPA/EMSL--

Mr. J. Gareth Pearson, representing EPA's Office of Acid Deposition, Environmental Monitoring and Quality Assurance, gave an overview of EPA research in monitoring and quality assurance. The Environmental Monitoring Systems Laboratory's (EMSL) current research priorities are summarized in Figure 5. Mr. Pearson stated that the analytical standards being set as part of the Quality Assurance program could be made available to other agencies, such as DOD and DOE.

FIGURE 5

OVERVIEW OF EPA RESEARCH IN
MONITORING AND QUALITY ASSURANCE*

Analytical Methods: Validation of SW-846 RCRA Analytical Methods

- o Organic GC Methods
- o Organic GC/MS Methods
- o Dioxin GC/MS Methods
- o Inorganic ICP Methods
- o Sample Preparation Methods
- o Sample Cleanup Methods
- o Toxicity Characteristic Leaching Procedure

Analytical Methods: Development

- o Volatile Organic Sample Testing (VOST): Sampling and Analytical Methods
- o Semi-VOST: Sampling and Analytical Methods
- o On-Line Monitors in Incinerators (CO and HCl)
- o Method for Non-GC Compounds: HPLC/MS and LC/MS/MS
- o Enhanced Sensitivity/Specificity: GC/FTIR (Super Critical Fluids) and GC/FTIR/MS

Quality Assurance

- o Analytical Standards (Cooperating with FDA)
- o Quality Control and Reference Materials
- o Laboratory Performance Monitoring
- o Performance Evaluations Studies and Materials
- o QA Database Development and Operations
- o Sample Holding Time Studies
- o Sample Quality Assurance Manuals/Procedures

Measurement Methods for Subsurface Characteristics and Monitoring

- o Indicator Parameters
- o Soil Gas Monitoring Methods
- o Vadoze Zone Monitoring Methods
- o Geophysical Monitoring Methods
- o Borehole Sensing Methods
- o Fiber Optic Sensors (with Lawrence Livermore Lab)
- o Standardization of Groundwater Methods

Monitoring Design

- o Statistical Design and Analysis
- o Geostatistical Methods Development
- o Well Placement/Monitoring Design

FIGURE 5

OVERVIEW OF EPA RESEARCH IN
MONITORING AND QUALITY ASSURANCE*
(Continued)

Monitoring Design (Continued)

- o Seasonal Variation
- o Wet Environment Monitoring
- o Fractured Zone Monitoring
- o External Monitoring of Underground Storage Tanks

Remote Sensing

- o Remote Imagery
- o Topographic Map Production
- o Application and Analysis of Geographic Information Systems (GIS)
- o Advanced Remote Sensing Systems

Source: Koutsandreas, John D. (EPA/OAEMQA) and Pearson, J. Gareth
(EPA/EMSL-LV)

DOD--

Lt. Col. Dennis Naugle, Assistant Director of Environmental Policy with the OASD/A&L, began by presenting a DOD organization chart and explained which organizations are responsible for hazardous waste management at military installations and which organizations offer technical support. Ultimately, the installation commander is responsible for ensuring that the hazardous materials used at his installation are managed and disposed of according to the law and that any existing hazardous waste contamination problems be resolved safely, legally, and cost-effectively.

The primary DOD research and development thrusts are in the areas of soil and groundwater in-situ treatment/degradation; in-situ cleanup by way of thermal, chemical, biological, and solid reduction techniques; containment; and site assessment among others. The DOD also recognizes USTs as a major contaminant problem.

DOE--

Mr. Gerald Daly, from DOE/HQ Defense Programs, spoke briefly about DOE's organization and facilities, explaining that the DOE's Operations Offices located in Albuquerque, Nevada, Savannah River, Richland, Idaho, Oak Ridge, Chicago, and San Francisco, are responsible for formulating policy and funding requirements for DOE hazardous waste projects.

Mr. Robert Sleeman, from DOE's Oak Ridge Operations Office, presented an overview of DOE's Hazardous Waste Remedial Action Program (HAZWRAP) which includes a hazardous waste information network, DOE's hazardous waste strategy, technical development and demonstrations, and technical support. Mr. Sleeman also reviewed the DOE's present R&D programs including risk assessment, hazardous waste incineration, paramagnetic separation, and waste acid reclamation among others, and DOE's proposed demonstration sites which were presented in detail during Session 6.

Session 3: Overview and Discussion of EPA's SITE Program

The SITE Program--

Mr. Ronald Hill, from EPA/HWERL, began the session with a description of EPA's planned Superfund Innovative Technology Evaluation (SITE) program which will be instituted when the new Superfund Act is passed; Mr. Hill distributed a background paper on the SITE program to the meeting attendees. An abbreviated version of this paper is given in Appendix B. The purpose of the SITE program is to find alternatives to on-site containment or landfills and to afford private industries an opportunity to demonstrate their innovative technologies at actual hazardous waste sites such as EPA's National Priority List (NPL) sites.

A major dilemma has existed in the past where developers of new technology have not been able to implement their technologies at sites because they did not have sufficient test data to prove the technologies' effectiveness but could not obtain the required test data unless it was implemented at a site. The SITE program's Demonstration Program provides an

opportunity for developers to test their technology by paying for the implementation and maintenance of the demonstration equipment and obtaining any necessary permits. EPA will provide a site for the demonstration, will assist the developer in obtaining permits, and will conduct the evaluation of the demonstration to validate the effectiveness of the technology.

The technology to be demonstrated must meet several criteria: 1) it must be innovative and 2) it must be demonstrated at an acceptable scale -one large enough to prove its effectiveness. EPA put out an RFP for innovative hazardous waste treatment technologies and received 20 responses, eleven of which have been conditionally accepted (discussed during Session 6).

The SITE program will receive \$20 million in funding per year from Superfund and allows for ten demonstrations per year. The Superfund Act also calls for an annual report on the progress of the program and an annual solicitation for proposals for demonstrations. EPA currently has three fast-track projects in the works although they are not really SITE projects; the projects are: 1) a cooperative demonstration with Coors in Colorado, 2) in-situ stabilization of PCBs in Florida, and 3) a plasma torch project for thermal treatment of oily sludges at Love Canal.

Operation of the Demonstration Program will include:

- o issuing a RFP for technologies;
- o selecting the technologies for demonstration;
- o soliciting sites for the demonstrations (done by the EPA Regional Offices) and;
- o matching the sites with the technologies.

Following this introduction to the SITE program, Mr. Hill invited comments and questions from the attendees; a discussion ensued.

Discussion on SITE Program--

How large-scale should the demonstration be? EPA will have to assess the risk of a scale-up for each demonstration project and make a case-by-case technical decision.

Will EPA evaluate the cost-effectiveness of the demonstration? A judgment will be made by EPA as to the cost of operating the demonstration, however, at this point, no definite plans have been made to evaluate cost, only technical effectiveness.

How will EPA assist in getting permits for developers? EPA can only assist or try to expedite the permitting process; EPA cannot actually obtain permits for developers.

Is the SITE program going to ease permit restrictions? EPA is looking into easing permit restrictions for SITE demonstrations.

How will EPA assist in community relations? Community relations will require the cooperation of numerous parties including EPA-Washington DC, EPA Region offices, the developer, and State environmental agencies.

How will the nominated demonstration sites and accepted technologies be matched? NPL sites will be priority sites for demonstrations; the actual matching approach has not been determined.

What if States object to having demonstrations performed in their State? EPA said that, so far, the States contacted have been enthusiastic, however, some may offer resistance. Overall management of the SITE demonstration projects may be difficult with so many organizations involved.

What about the small entrepreneur with a good project and little funding? EPA may be willing to help small entrepreneurs with the cost of setting up the demonstration.

What about liability and responsibility? EPA is to have a written agreement with the demonstration developers concerning the responsibilities of each party.

Finally, it was suggested that EPA put out a listing of potential new projects - demonstration technologies and sites - to assist in the matching process with DOE and DOD.

Session 4: Review of 1985 Cooperative Efforts

Lt. Col. Dennis Naugle opened the session with a review of the funding available from DOD for hazardous waste remedial actions and R&D. Funding comes from the centralized Defense Environmental Remediation Account (DERA) and is allotted to the military services (Army, Navy, and Air Force). Research development and demonstration funding can come from the DERA account or through funds separately programmed by the military services. In the past, installation clean-up has taken priority over R&D. DOD has 400-800 priority sites which require remedial action and expects to expend \$5-10 billion over the next 10 years to achieve remediation. Lt. Col. Naugle stated that more funding may be allotted to R&D in the future, if they will result in the use of innovative technologies.

Army/EPA--

Mr. Clemens Meyer, from the Army Corps of Engineers, presented an overview of the Army's funding allocation for hazardous waste-related projects. Approximately \$1.7 million will be spent by the Army in 1986 on the joint demonstration projects with EPA. Of the eleven (11) projects presented by the Army, nine (9) are on-going projects presented in 1985; two (2) of the projects are newly proposed. Mr. Meyer gave a quick overview of the projects and turned the floor over to Mr. Robert Bartell for details.

Mr. Robert Bartell, from USATHAMA, reviewed the following projects:

- o In-Situ Treatment of TCE Contamination Using Microbial Degradation
- o Mobile Activated Carbon Regenerator

- o Evaluation of Bentonite Clay Containment Barriers
- o Lagoon Closure: Site Preparation and Closure After Treatment of Lagoon Contents*
- o Heavy Metal Extraction Technology for Use in Treatment of Metal-Finishing Wastes
- o Data Management System and Mapping
- o Remote Sensing Using Aerial Photography
- o Incineration Implementation Support/Test Burn at CRF Using RMA Basic F Materials*

Description of the on-going projects proposed by the DOD-Army are listed in Appendix A. Mr. Bartell also presented the Army's two newly-proposed projects: 1) Sample Holding Time Analysis Study, and 2) Multimedia Pollution Control for Metal-Finishing Operations. The Sample Holding Time Analysis Study will be done in cooperation with the Air Force, DOE-Oak Ridge, and EPA, and will involve developing and verifying sample-holding times for soil samples contaminated with TCE or energetic materials.

The Multimedia Pollution Control project will involve the development of a database containing pollution control options for metal-finishing activities. This project was started in January 1986; the database should be completed by 31 July 1986.

Air Force/EPA--

Major Thomas Walker, Chief, Environmental Engineering Branch, Air Force Engineering and Services Center, presented an update of the following twelve on-going Air Force/EPA projects:

- o Microbial Degradation - Soils and Groundwater
- o RF Thermal Decontamination
- o TCE Aerobic Degradation
- o Soil Washing
- o Aprons for In-Situ Remediation of Subsurface Contamination
- o Catalytic Destruction of Air Stripped Organics
- o Geophysics/Geochemistry Field Investigations
- o Shale Oil JP-4 Environmental Fate and Effects
- o Facilitated Transport of Hydrophobic Compounds
- o The Destruction/Detoxification of Chlorinated Dioxins in Contaminated Soils with APEG Reagents
- o Herbicide Orange Incineration: Site Demonstration
- o Herbicide Orange Incineration

Lt. Col. Robert Lombard, from the HQ USAF/SGPA, presented two additional Air Force/EPA projects:

* Both the Lagoon Closure project and CRF project have since been cancelled. It was felt that the Lagoon Closure guidelines would be of little value because of the vast diversity of individual site characteristics. Technical and mechanical difficulties at the CRF facility caused extensive delays in the schedule, which now no longer meets the RMA requirements.

- o Health Impacts of Chemically Contaminated Groundwater
- o Toxicology Guide

The Toxicology Guide (Volume I) is considered a success and Volumes II and III have already been started.

Updates of these on-going projects are presented in Appendix A.

OASD/EPA--

Lt. Col. Dennis Naugle presented one on-going joint DOD/EPA project:

- o Uncertainties in Carcinogenic Risk Assessment

A project description is listed in Appendix A.

Navy/EPA--

Ms. Mary Lingua, from the Navy Civil Engineering Laboratory (NCEL), Port Hueneme, presented the following on-going joint Navy/EPA projects:

- o Treatment of Oil Saturated Soil
- o In-Situ Biodegradation Methodologies for Restoration of Contaminated Aquifers
- o Organo-tin Real Time Analysis
- o Evaluation of Microbial PCB Decontamination Process
- o Evaluation of Electrochemical PCB Decontamination Process

Descriptions and updates of these on-going projects are given in Appendix A. Ms. Lingua also mentioned the Navy's PCB cleanup operation taking place in Norfolk, VA, after a transformer caught on fire and contaminated aircraft parts in a warehouse storage area; the Navy expects to spend \$6-10 million to cleanup the area.

EPA/DOD--

Mr. Ron Hill presented updates on two on-going joint projects:

- o Leaking Underground Storage Tanks - Leak Detection and Testing Methods
- o Evaluation of UST Risk Assessment Models

The EPA's UST Leak Detection test apparatus is due to be completed in June 1986 and will be installed and tested during the next two years. Work has not started on the UST Risk Assessment Models project due to lack of funding.

Session 5: Discussion of Proposed New Cooperative Research Efforts

Mr. Ron Hill opened the morning session of the meeting on the second day by reiterating and clarifying several points concerning the SITE program. Mr. Hill stated that demonstration projects need not be installed at NPL sites but could be conducted anywhere that is suitable. Several of the DOD representatives stated that installation commanders may be apprehensive about demonstration projects being installed at their facilities unless a total remediation of the site is achieved. EPA stated that there could be no guarantees about the ultimate effectiveness of any of the demonstration projects. All agencies agreed that some sort of system should be worked out to match the chosen technologies with acceptable demonstration sites. Ron Hill added that the Regional EPA personnel would decide when, if a demonstration project proves effective, it would be instituted on a long-term basis.

The Session 5 discussion of newly-proposed projects from DOE, EPA, and DOD followed. Descriptions of most of the presented projects are given in Appendix A; some of the projects proposed during the meeting do not appear in Appendix A because they are not considered "cooperative" efforts, i.e., only one agency showed interest in the project.

DOE-Proposed Projects--

Mr. Gerald Daly opened the Session 5 presentations for the DOE, and stated that EPA and DOD should keep in mind who could be a project contact from their respective organizations for the DOE projects.

Mr. Dean Eyman, from DOE's Oak Ridge National Laboratory, presented the following twelve projects for which DOE has allotted funding:

- o Risk Assessment Methodology
- o Hazardous Waste Incineration
- o Nitrate Destruction Using a Fluid Bed Calciner
- o Process Microwave Heating
- o Supercritical Water Oxidation
- o Treatment/Disposal of Reactive Materials
- o Paramagnetic Separation of Waste
- o Waste Acid Detoxication and Reclamation
- o By-Product Expert System
- o Process Material Substitution
- o In-Situ Detection of Organics
- o In-Situ Monitoring of Organics

Mr. Gareth Pearson, from EPA/EMSL-LV stated that work was currently being done by EPA and DOD in in-situ detection and monitoring of organics and suggested close cooperation between all three agencies in this area.

EPA-Proposed Projects--

Mr. Joe McSorley, from EPA/AEERL-RTP, presented two of the six EPA/AEERL-proposed projects as follows:

- o On-Line Continuous Emission Monitoring of DOD Hazardous Waste Incineration
- o High Efficiency, Low NO_x Burner/Incinerator for Hazardous Waste Cofiring

Mr. Wade Ponder, also from EPA/AEERL-RTP, presented the other four EPA/AEERL projects:

- o Hazardous Emissions from Chrome Plating Operations*
- o Destruction of Plastic Media Blasting Residues by Incineration
- o Emissions Factors for Metal Finishing Operations*
- o Sampling Method for Reactive POHC from Incineration

Mr. Ron Hill presented the nine EPA/HWERL-proposed projects:

- o In-Situ Extraction of VOCs from Soils
- o Stabilization of Hazardous Waste at Superfund Sites
- o Evaluate Decontamination of Excavated Soils Using Aqueous-Based Extraction Techniques
- o Evaluation of the Effectiveness of Foams to Abate Unconfined Releases of Toxic Gases
- o Assessment of Performance of Double Liner Systems
- o Evaluation of Performance of RCRA-Design Cover System
- o Landfill Stabilization by Lime/Flyash Injection
- o Federal Workshop on Hazardous Waste Management for Federal Facilities
- o Co-Firing Hazardous Waste in U.S. Navy Boilers

Mr. Hill added that the Federal Workshop project was going to be rewritten to include a number of workshops and that the reworked write-up could be obtained from Mr. C.C. Lee, from EPA/HWERL, who is the EPA Project Coordinator.

Mr. Herb Quinn, Director of the Water and Land Division of the Office of Environmental Processes and Effects Research/EPA, presented four additional research proposals from EPA's Environmental Research Laboratories. The proposed projects are as follows:

- o In-Situ Biodegradation of Organics
- o 13 Tasks Related to Microbiodegradation of Pollutants
- o Study of In-Situ Cleanup of Estuarine Environments
- o Study of Hazardous Waste Disposal in Wetlands Environments

A fifth study will also be proposed at a later date.

Mr. Gareth Pearson, from EPA/EMSL-LV, presented the following five projects proposed by EPA's Monitoring Laboratory:

* These two projects have since been combined with the Multimedia Pollution Control for Metal-Finishing Operations project which was presented by Mr. Robert Bartell, USATHAMA.

- o External Monitoring Devices for Underground Storage Tanks
- o Integrated Monitoring Systems for DOD Hazardous Waste Site Assessment
- o Air Monitoring and Quality Assurance
- o Quality Assurance Techniques/Materials
- o Laboratory Evaluation Procedures

The UST Leak Detection project is being done jointly with the Air Force and was presented later in the session. Mr. Pearson also mentioned a sixth project involving fiber optics research at Tufts University.

DOD-Proposed Projects--

Maj. Thomas Walker presented the following two of the four Air Force proposed projects:

- o Surface-Based Biological Treatment of TCE-Contaminated Groundwater
- o External Monitoring Devices for Underground Storage Tanks

Lt. Col. Robert Lombard presented the remaining two proposed projects:

- o Hazard Assessment Rating Methodology II
- o Analysis of Techniques to Improve Exposure Assessments for Water-borne Contaminants

Mr. Robert Bartell, from USATHAMA, had presented the Army's two new proposals during Session 4 and, therefore, did not re-present but restated what the projects were:

- o Sample Holding Time Analytical Study
- o Multimedia Pollution Control for Metal-Finishing Operations

The Navy did not present details of their newly proposed projects which are listed as follows:

- o Assessment of Infrared Incineration Process for Destruction of Hazardous Waste Contaminated Soils
- o Corrosion Control and Condition Monitoring of Buried and On-Grade Storage Tanks
- o Remote Sensing of Hazardous Chemical Vapors by Infrared Spectroscopy
- o The EM⁶ Systems Approach to DOD Installation Restoration, Environmental Monitoring, Mapping, Modeling, and Management
- o Development of an Artificial Remedial Action Intelligence Data System (RAIDS) for Assessing Remedial Measures

One more project was proposed by Mr. Robert Griffing from DOE's Chicago Operations Office.

- o Plasma Arc Pyrolysis for Thermal Destruction of Toxic Waste

Session 6: EPA's SITE Program and DOD/DOE Involvement

Mr. Alfred Lindsey, from EPA's Office of Environmental Engineering and Technology, opened Session 6 with a review of the primary purpose of EPA's SITE program which is to:

- o Provide test sites and access to wastes;
- o provide credible test results of the demonstrations;
- o assist with obtaining permits, and;
- o do as many demonstrations as possible, quickly and with quality in cooperation with DOD and DOE.

Mr. Lindsey identified several steps which must be clarified in the SITE program process; the steps include identifying potential projects and deciding responsibilities.

Step 1: Identifying Potential Projects--

Mr. Lindsey stated that a process for choosing sites for demonstrations must be developed. Regional EPA Offices should nominate sites based on a standard set of criteria such as technical factors, citizen concerns, and proximity to populated areas. Demonstration technologies will be chosen by EPA based on criteria such as operating scale, innovativeness, and technical feasibility. If DOD and DOE submit a demonstration technology that meets the criteria, then EPA will consider it. EPA has not considered any foreign-developed technologies, but will do so under the same criteria as American-developed technologies.

Step 2: Responsibilities--

Mr. Lindsey stated that the responsibilities of all parties involved in the demonstration program have not been finalized. The developer is responsible for transporting, implementing, and operating the demonstration. EPA is responsible for site preparation, sampling and analysis, the evaluation plan, providing credibility to the results, managing the residuals (waste products which must be known prior to start), and generating the report of evaluation. Several unknowns remain such as who is responsible for evaluating the cost of the demonstration.

Mr. Lindsey suggested that a steering group be organized to set up procedural guidelines for the SITE program and to "iron out" the details. He also recognized that EPA needs to package the SITE program so as to make it easy for a developer to set up and operate a demonstration. A discussion on the SITE program ensued.

Discussion: SITE Program--

Discussion revolved around five subjects: Sites with multiple problems, regulations, liability, environment impact statements, and permits. DOD representatives expressed concern about demonstrations being installed at DOD sites with multiple contamination problems. A demonstration may only result in a partial cleanup but could put in appropriate pressure on the installation commander for total site cleanup. A partial cleanup may also lower the site's priority for total cleanup.

Another possible problem could occur if a demonstration installed at a non-NPL site produces a waste product which is hazardous; local regulations may prohibit transport or disposal of the waste. DOD and DOE both expressed caution towards installing unproven technologies. It was suggested that a regulatory time-table be instituted which would allow time for another cleanup attempt if a demonstration fails. EPA reiterated that they would not allow a demonstration technology to be installed if they did not think it would work.

The discussion then turned to liability. If a demonstration fails or is only partially effective, who is liable and who is responsible for finishing the cleanup operation? EPA stated that a cooperative agreement with the developer will be signed in which the responsibilities of each party will be outlined. EPA did not know if an agreement would need to be signed with DOD and DOE as a Memorandum of Agreement already exists between them.

DOD asked if an environmental impact statement (EIS) would be required for demonstration sites. EPA felt that an environmental assessment would be sufficient. DOD added that the installation commander or site owner may request an EIS.

Permitting requirements were clarified by EPA. Permits would probably not be required at NPL sites but may be required at other sites. Permits may be required for extracting wastes and also States may require permits for certain activities.

All the agencies agreed that a steering group (See Figure 6) should be organized to discuss responsibilities, permits and regulations, and how to run the program effectively and efficiently. DOE requested a more descriptive write-up of the available innovative technologies.

SITE Demonstration Technologies--

Mr. Ron Hill gave a brief description of each of the demonstration technologies listed in Figure 7. He added that eleven proposals were rejected for various reasons such as unacceptable scale, lack of lab work, lack of information, not innovative or not applicable. Attendees remarked about the lack of response to EPA's RFP. Mr. Hill felt that once the SITE program is set up and operating, more private industries will realize that there is a market and opportunity for innovative technologies and will get involved.

DOD Involvement--

Lt. Col. Dennis Naugle stated that there are currently 400-800 DOD sites which require remedial action; DOD is in the process of characterizing these sites and hopes to use some as demonstration sites. He added that 35% of the sites have compounds which are unique to DOD sites (different from EPA's Superfund sites). These compounds are primarily energetic materials such as munitions waste.

DOE Involvement--

Representatives from six DOE offices presented a total of 23 potential demonstration sites for EPA's SITE program.

FIGURE 6

Steering Group to Discuss EPA's SITE Program

EPA Representatives

Mr. Alfred Lindsey
Mr. Ronald Hill
Mr. John Koutsandreas

DOE Representatives

Mr. Robert Sleeman
Mr. Gerald Daly

DOO Representatives

OSD -	Lt. Col. Dennis Naugle
Army -	Mr. Clemens Meyer Mr. Robert Bartell
Air Force -	Lt. Col. Steve Termaath Lt. Col. Robert Olfenbuttel or Maj. Thomas Walker
Navy -	Dr. Brian Higgins Ms. Mary Lingua or Mr. Bill Powers

Figure 7

SITE Demonstration Technologies

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SITE Demonstrations

The following responders to the SITE RFP have been tentatively ranked as Conditionally Acceptable. Since the proposers have not been advised as to the results of the review and the list has not been finally approved by EPA, it should be held in confidence.

1. Advanced Combustion Technologies, Inc.
Oxygen burner for incinerator
2. Hazcon, Inc.
Solidification process
3. Shirco Infrared Systems, Inc.
Infrared incinerator
4. Terra Vac, Inc.
In-situ removal of volatile contaminants from soils
5. Waste-Tech Services, Inc.
Fluidized bed incinerator
6. Westinghouse Electric Corp.
Pyroplasma process
7. Resources Conservation Company
Extraction of hydrocarbons from contaminated sludges and spills
8. Plasma Systems, Inc.
Plasma pyrolysis thermal unit
9. Westinghouse Electric Corp.
Electric pyrolyzer
10. GH Technologies, Inc.
Circulating bed combustor
11. General Electric and International Waste Technologies
Solidification/fixation process

Source: EPA

APPENDIX A

DOD/EPA/DOE Hazardous Waste

Cooperative Efforts

Note: The asterik (*) in the Cooperative Effort project titles indicates the lead agency for that project. Also, the dollar amounts shown are included for planning purposes only and are in thousands unless otherwise indicated.

In-Situ Treatment

(1) Groundwater Treatment Technology

DOD*/EPA/DOE Hazardous Waste Cooperative Effort

Title: In-Situ Treatment of Contaminated Groundwater

Project Objective(s): Identify, evaluate, and demonstrate technologies for the in-situ treatment of contaminated groundwater.

Description:

- a. Identify applicable in-situ groundwater treatment concepts by a review of groundwater treatment technology studies performed to date and the generation of new, innovative concepts.
- b. Develop performance criteria to be used in the evaluation of identified applicable technologies. These performance criteria will include factors such as technical feasibility, decontamination effectiveness, safety, environmental effects, and cost.
- c. Apply performance criteria to identified technologies in order to select the most promising technologies for further development.
- d. Perform laboratory evaluation of selected promising technologies.
- e. Develop plan for field demonstration with emphasis to be placed upon the environmental and safety aspects of said demonstration.
- f. Field demonstration of selected in-situ groundwater treatment technology.

Accomplishments:

- a. Coordinated Army effort with EPA, 9 Apr 86.
- b. Initiated Army efforts, 30 Jun 86.

Plans:

- a. Identification of in-situ groundwater treatment concepts for further evaluation, 1 Aug 86.
- b. Development of performance criteria for the evaluation of identified treatment concepts, 1 Oct 86.
- c. Selection of most promising concepts for laboratory evaluation, 1 Apr 87.

Expected Start Date: Apr 1986.

Expected Completion Date: Sept 1989.

	<u>FY 86</u>	<u>FY 87</u>	<u>FY 88+</u>
EPA Resources Required:			
DOD Resources Required:	95K	0	0
DOE Resources Required:			

EPA Project Coordinator:

Ronald Lewis, EPA/HWERL, (513/569-7856)

Ron Hill, EPA/HWERL, (513/569-7861)

DOD Project Coordinator:

Janet Mahannah, USATHAMA, (301/671-2054)

Robert Bartell, USATHAMA, (301/671-2054)

DOE Project Coordinator:

H.F. Bauman, DOE-Oak Ridge, (615/574-2037)

Demonstration Project Location: Candidate Sites - Letterkenny Army Depot, PA; Anniston Army Depot, AL; Sharpe Army Depot, CA

DOD*/EPA/DOE Hazardous Waste Cooperative Effort

Title: Microbial Degradation - Soils and GW

Project Objective(s): The purpose of this effort is to field validate in situ methods to remediate aquifers contaminated with multiple wastes. In situ methods of aquifer restoration are largely experimental, but are potentially cheaper and more effective than traditional methods. These methods must be field validated before they can be considered proven technologies by Air Force IRP managers, especially for sites with multiple contaminants.

Description: Site E-1 at Kelly AFB TX is contaminated with chlorinated solvents, fuel components and heavy metals. In situ aerobic bioreclamation using hydrogen peroxide is being demonstrated at this site. This effort will continue treatment at Site E-1, and provide long-term monitoring of the site to assess the treatment. Plans for full-scale remediation of Site E-1 will be developed. Work prior to FY86 has been conducted by SAIC under contract to HWERL. FY86 efforts will be conducted by an Air Force contractor to be determined in August 85.

Accomplishments To Date: Laboratory studies indicated that indigenous bacteria could be enhanced with peroxide and nutrients to degrade some of the organic wastes. The pilot-scale treatment system operated from May 85 to Feb 86. Although there were some indications of biodegradation, the peroxide delivery rates were severely limited by low hydraulic conductivity. Daughter reactions between nutrients and minerals further reduced hydraulic conductivity by precipitation of calcium phosphate. This study illustrated that (1) indigenous microbes can be enhanced to degrade certain organics, (2) efficiency on in situ treatment is highly dependent on site hydraulic conductivity, and (3) in situ treatments must be carefully formulated to achieve treatment yet avoid adverse daughter reactions. The site will be monitored in the out years to assess treatment efficiency.

Expected Start Date: May 84

Expected Completion Date: Dec 88

	<u>FY 85</u>	<u>FY 86</u>	<u>FY 87</u>	<u>FY 88+</u>
EPA Resources Required:	150K	58K	0	0
DOD Resources Required:	660K	56K	25K	12K
DOE Resources Required:				

EPA Project Coordinator:

Steve James, US EPA/HWERL, (513/569-7877)

Ron Hill, EPA/HWERL, (513/569-7861)

DOD Project Coordinator:

Capt. Ed Heyse, HQ AFESC/RDVW, Tyndall AFB, FL 32403 (904/283-4628)

DOE Project Coordinator:

H.F. Bauman, DOE-Oak Ridge, (615/574-2037)

Demonstration Project Location: Kelly AFB TX (San Antonio)

DOD*/EPA/DOE Hazardous Waste Cooperative Effort

Title: RF Thermal Decontamination

Project Objective(s): To demonstrate the ability of radio frequency induced heating to thermally decompose and volatilize hazardous organic chemicals within the soil. Specifically, this initial study will determine the degree of decomposition and volatilization in a soil column spiked with tetrachloroethylene and subjected to a radio frequency temperature pattern rising to 400 degrees Celsius. If the results are positive, a prototype radio frequency soil heating unit could be developed and tested.

Description: Radio Frequency (RF) electromagnetic energy has been used to extract shale oil from rock formations and has potential applications for in situ thermal destruction and volatilization of organic contaminants. Surface electrodes create an electromagnetic field, inducing molecular vibration and rotation which creates a uniform soil heating. Temperatures approaching 600 degrees celsius can be sustained in a large soil volume creating conditions for thermal decomposition and volatilization. The concept of employment for RF heating would require the electrode area to be covered by a vapor barrier which would collect volatilized organics. Collected vapors would then be treated using carbon adsorption or chemical dechlorination.

This project supplements an ongoing EPA HWERL cooperative agreement with the IIT Research Institute to study the use of radio frequency heating to act as catalyst to chemical decontamination methods. This laboratory effort includes the measurements of soil dielectric properties, bench scale heating experiments with a mass balance on tetrachloroethylene and its decomposition by-products, and a preliminary design and cost estimate for a prototype unit. RF heating will also be used in conjunction with alkali metal polyethylene glycol (APEG) reagents.

Accomplishments To Date: Bench-scale testing using soils contaminated with tetrachloroethylene successfully demonstrated the concept of RF thermal decontamination. Precise analytical techniques were developed for ensuring the mass balance for volatile compounds. Pilot-testing using 2 cu yd of contaminated soil will begin in Jun 86. A decision on full-scale testing is expected in December 86.

Expected Start Date: Apr 85
Expected Completion Date: June 88

	<u>FY 85</u>	<u>FY 86</u>	<u>FY 87</u>	<u>FY 88+</u>
EPA Resources Required:	0	99K	UNK	
DOD Resources Required:	0	0	450K	50K
DOE Resources Required:				

EPA Project Coordinator:

Charles Rogers, US EPA/HWERL (513/569-7757)

DOD Project Coordinator:

Doug Downey, HQ AFESC/RD VW, Tyndall AFB (904/283-4628), Autovon 970-4628

DOE Project Coordinator:

H.F. Bauman, DOE-Oak Ridge, (615/574-2037)

Demonstration Project Location: Not Determined.

DOD/EPA*/DOE Hazardous Waste Cooperative Effort

Title: TCE Aerobic Degradation (R.S. Kerr ERL)

Project Objective(s): To better characterize the biodegradation of chlorinated aliphatic compounds (such as trichloroethylene, the dichloroethylenes, vinyl chloride, 1,1,1-trichloroethane, 1,1,2-trichloroethane, and 1,1-dichloroethane) by microorganisms that aerobically metabolize gaseous aliphatic hydrocarbons. Emphasis will be placed on determining the fundamental laws that relate the extent of removal of the chlorinated organics to the quantities of gaseous hydrocarbon and oxygen consumed by the microbes to provide information required for intelligent design of groundwater reclamation activities (in situ bioreclamation or a surface based reactor) that are based on this process.

Description: Laboratory studies at the Robert S. Kerr Environmental Research Laboratory have shown that chlorinated alkanes and alkenes can be degraded by alkane-metabolizing microorganisms. The mechanism of biodegradation is fundamentally different from that carried out by the trichloroethylene-degrading organisms isolated at the Gulf Breeze ERL. Current research is examining the parameters controlling microbial oxidation of trichloroethylene in contaminated groundwater in the presence of various gaseous aliphatic hydrocarbons, utilizing a laboratory-scale prototype of a fixed-film soil bioreactor. A fundamental relationship between the extent of removal of trichloroethylene and the quantity of gaseous hydrocarbon required has been developed. This methodology will be further used to extend the relationship to the other chlorinated hydrocarbons and to determine the range of concentrations over which the relationship holds.

Expected Start Date: Oct 85
Expected Completion Date: Sept 88

EPA Resources Required:	FY 86 \$100K	FY 87 \$50K	FY 88+ \$50K
DOD Resources Required:	\$123K	\$100K	
DOE Resources Required:			

EPA Project Coordinator:
Bill Dunlap/John Wilson, R.S. Kerr Environmental Research Laboratory,
(405/332-8800)

DOD Project Coordinator:
Capt. Richard Ashworth, USAF, HQ AFESC/RDVW, (904/283-4628)

DOE Project Coordinator:
H.F. Bauman, DOE-Oak Ridge, (615/574-2037)

Demonstration Project Location: Laboratory Research Only.

In-Situ Treatment
(5) Fuel Oil Microbial Degradation

DOD*/EPA Hazardous Waste Cooperative Effort

Title: Treatment of Oil-Saturated Soil

Project Objective(s): Effectiveness of the biodegradation process will be measured under controlled field conditions. If successful, the process will be applied to other sites.

Description: The oil pollution at Murkie Field of the Naval Communication Station (NCS), Thurso, Scotland was caused by diesel fuel (No. 2 diesel) lines and storage tank leakage prior to 1983. An estimated 2,000 gallons were lost. Approximately 1,000 gallons were recovered through a surface runoff and a leachate recovery trench along the downhill side of the oil-polluted area. The remaining 1,000 gallons were believed to be captured by soil that overlays the bedrock. The majority of the oil was trapped underneath and/or in the vicinity of a boiler building and an emergency power generator house. The buildings sitting on the primary oil spill area prohibited the soil from being excavated and hauled away.

The Naval Civil Engineering Laboratory (NCEL), Port Hueneme, California tested and evaluated an in-situ biodegradation system provided by Polybac Corporation of Allentown, Pennsylvania. The system consisted of an aerobic bioreactor (CTX-10 BIOX), a clarifier, a water injection system, a sprinkler system, and a leachate recovery and pumping system. The system operation began with water (fortified with beneficial microorganisms, nutrients and emulsifier) being injected into and/or sprayed onto the surface of oil-contaminated soil. Thus, the microorganisms were being seeded into oil-soaked soil to facilitate in-situ biodegradation. Some residual oil, which was not biodegraded, was in the BIOX bioreactor. Effluent from this bioreactor was again then recycled back for injection and/or spraying onto the soil surface of oil-contaminated soil.

Demonstration of the oil biodegradation system at NCS Thurso is considered successful. It may have removed as much as 80% of the oil spilled during the 105 days of operation. This technology will be demonstrated at other DOD sites with comparable environment and conditions.

Expected Start Date: 1 July 1985
Expected Completion Date: 15 October 1985

	<u>FY 85</u>	<u>FY 86</u>	<u>FY 87</u>	<u>FY 88+</u>
EPA Resources Required:	None			
DOD Resources Required:	\$97,000			

EPA Project Coordinator:
Steve James, EPA/HWERL, (513/569-7877)
Ron Hill, EPA/HWERL, (513/569-7861)

DOD Project Coordinator:
Dr. D.B. Chan, NCEL, (805/982-4116)

Demonstration Project Location: NAVCOMMSTA Thurso, Scotland, UK.

DOD*/EPA/DOE Hazardous Waste Cooperative Effort

Title: In-Situ Biodegradation Methodologies for Restoration of Contaminated Aquifers

Project Objective(s): The objectives of this study are: to demonstrate the aerobic decomposition of TCE and related compounds at a small-scale field site by promoting appropriate enzymatic activity of indigenous microorganisms; to quantify the rate of decomposition and to identify intermediate products; and to optimize the conditions under which this process occurs.

Description: Currently accepted techniques for the restoration of aquifers contaminated by TCE and other compounds within this class of chemicals primarily involve pumping the water to the surface and treatment by aeration or passage through carbon columns. These procedures have proven to be expensive and time-consuming to those affected including government, industry and military. Recent laboratory findings at the EPA Ada Laboratory indicate that TCE can be degraded in-situ more economically with environmentally acceptable degradation products by the addition of methane and an oxygen source to the subsurface. The purpose of this project is to carry out a field demonstration to determine the feasibility of using this process to remove contaminants such as TCE from groundwater. In addition, information will be gathered which will assist in the economic design and operation of future aquifer reclamation projects.

Accomplishments To Date: Analysis of the aquifer solids have found the bacteria populations to be large, generally in the range of 1×10^7 to 5×10^7 per gram of dry material. Laboratory studies are currently underway to enrich microorganisms capable of degrading TCE. Microorganisms are being cultured from samples of the aquifer solids. Enrichments of cultures grown on both methane and methanol show evidence of TCE degradation only in the methane cultures. Pure cultures have been isolated from the methanol and methane enrichments. The ability of these pure cultures to initiate the degradation of TCE is currently being investigated. Laboratory columns filled with aquifer solids are currently being used to study the microbial degradation of a variety of alkyl halides under different environmental conditions. Experiments with the columns will indicate if the microbial populations present in the aquifer are capable of degrading target contaminants. These studies will also help determine the lag time before bio-transformations begin, an important first step in determining the feasibility of biodegradation processes for groundwater restoration.

Expected Start Date: 5/85

Expected Completion Date: 4/88

	<u>FY 85</u>	<u>FY 86</u>	<u>FY 87</u>	<u>FY 88+</u>
EPA Resources Required:	553K	770K	591K	
DOD Resources Required:	20K	20K		
DOE Resources Required:	20K	20K		

EPA Project Coordinator:

Jack W. Keeley (R.S. Kerr Env. Res. Lab/Ada, OK); FTS:743-2210

DOD Project Coordinator:

Bill Powers, NCEL, (805/982-4173)

DOE Project Coordinator:

H.F. Bauman, DOE-Oak Ridge, (615/574-2037)

Demonstration Project Location: Naval Air Station, Moffett Field, CA.

DOD/EPA*/DOE Hazardous Waste Cooperative Effort

Title: A Soil-Bioreactor to Treat Vapors Produced by In-Situ Restoration
of Hazardous Wastes Sites

Project Objective(s): One of the more attractive new technologies for in situ treatment of hazardous wastes involves stripping volatile components from the waste by circulating air through contaminated regions in the unsaturated zone. This procedure rapidly weathers the wastes, reducing its capacity to release volatile components to groundwater or soil air. However, the procedure produces an air stream that must be treated before it can be discharged to the atmosphere (particularly in urban areas) which adds significantly to the cost. Engineers for Johnsons Wax, Inc. have designed, constructed, and evaluated a field demonstration of a soil bio-reactor to degrade vapors of petroleum hydrocarbons. The device has been evaluated in-house by R.S. Kerr ERL and may be appropriate for treating vapors produced by in situ air stripping of petroleum hydrocarbons, such as might be produced by a release from an underground storage tank. If it is appropriate, it should be very cost-effective compared to conventional treatment such as carbon adsorption or catalytic combustion.

Description: R.S. Kerr ERL is negotiating a cooperative agreement with the University of Oklahoma to define and optimize the kinetics of biodegradation of vapors in unsaturated subsurface materials. By summer of 1987 preliminary results should be available to guide a field demonstration of the approach. A proposal is in preparation to demonstrate the approach on Federally owned property at Traverse City, Michigan. However, at present no funding to support the demonstration has been identified. The approach has been discussed with staff of the Environmental Engineering Branch, U.S. Air Force Engineering and Services Center, who are considering a demonstration on a DOD facility. At present no decision has been made or commitment given by either EPA or the USAF. This would be a good opportunity for RSKERL and HWERL to cooperate with RSKERL providing technical advice and oversight on the fundamental processes and HWERL overseeing the engineering application. If the demonstration could be conducted at a site used by the USAF to evaluate the efficacy of in situ air stripping, considerable money and time could be saved.

Expected Start Date: Jun 87
Expected Completion Date: Jun 89

	<u>FY 87</u>	<u>FY 88</u>	<u>FY 89</u>
DOD Resources Required:	\$200K	\$400K	\$200K
EPA Resources Required:	\$100K	\$100K	

Note: If project could be done at Super Fund site, EPA contribution might be increased and DOD requirement decreased accordingly.

Proposed EPA contacts: John Wilson, RSKERL, (405/332-8800); & Clyde Dial, HWERL, (513/684-7528)

Proposed DOD contact: Maj. Tom Walker, USAF-A, AFESC, (904/283-4628)

Proposed DOE contact: H.F. Bauman, DOE-Oak Ridge, (615/574-2037)

Demonstration Project Location: Research Triangle Park, NC - Integrated Laboratory Systems

DOD*/EPA/DOE Hazardous Waste Cooperative Effort

Title: Aphrons for In-Situ Remediation of Subsurface Contamination

Project Objective(s): The purpose of this effort is to develop "aphron" technology to be used for in-situ subsurface contamination remediation. Aphrons are small, stable bubbles, having a diameter of about 25 microns. Their potential uses in In-situ remediation are: (1) transport mechanism for chemical and biological additives, (2) a rich oxygen source, and (3) a means to physically strip organic contaminants from soils.

Description: Laboratory apparatus to physically model the use of aphrons for in-situ remediation will be designed and fabricated. Apparatus will be tested to confirm aphron transport in porous media. Applications and techniques for the use of aphrons to decontaminate soils will be developed. The feasibility of these methods will be determined using contaminated soil from Air Force IRP sites. The final report will include a proposal for pilot scale field demonstration of aphron technology.

Accomplishments to Date: The contractor for this effort will be Virginia Polytechnical Institute and State University. Continuing resolution authority delayed start of contract.

Expected Start Date: October 1985
Expected Completion Date: January 1988

	<u>FY 85</u>	<u>FY 86</u>	<u>FY 87</u>	<u>FY 88+</u>
EPA Resources Required:	0	31K	25K	0
DOD Resources Required:	0	69K	75K	0
DOE Resources Required:				

EPA Project Coordinator:
Steve James, EPA/HWERL, (513/569-7877)
Ron Hill, EPA/HWERL, (513/569-7861)

DOD Project Coordinator:
Capt. Edward Heyse, USAF; AFESC/RDOW, (904/283-4628); AUTOVON 970-4628

DOE Project Coordinator:
H.F. Bauman, DOE-Oak Ridge, (615/574-2037)

Demonstration Project Location: Laboratory research only in FY 86 and 87.

In-Situ Treatment
(9) VOC Extraction from Soils

DOD/EPA* Hazardous Waste Cooperative Effort

Title: In-Situ Extraction of VOCs from Soils

Project Objective(s): To define the range of soil characteristics that in-situ VOC extraction can be used effectively.

Description: DOD has sponsored research at the field scale level in the vacuum extraction of VOCs from contaminated soils. It appears that soils contaminated with VOCs can be decontaminated in-situ by manipulating the vapor pressure of the soil system. There are several unanswered questions about the achievable chemical concentrations and the soil characteristics this technology is applicable to. This cooperative DOD/DOE/EPA study would build upon and expand on the DOD activity.

Tasks:

1. Define the site and soil characteristics needed for in-situ VOC extraction to be effective.
2. Define the operating and time requirements to achieve the lowest chemical concentrations.
3. Determine the number and percentage of superfund sites this technology can be effective.
4. Further field evaluations of existing systems.

Expected Start Date: January 1987

Expected Completion Date: December 1988

EPA Resources Required:	<u>FY 87</u> 125K	<u>FY 88</u> 150K	<u>FY 89</u> 150K	<u>FY 90</u> 150K
DOD Resources Required:				
DOE Resources Required:				

EPA Project Coordinator:

Paul de Percin, EPA/HWERL, (513/569-7797) (FTS/684-7797)

DOD Project Coordinator:

Dennis Wynne, USATHAMA, (301/671-2466)
Doug Downey, HQ AFESC/ROV, (904/283-2942)
Bill Powers, NCEL, (805/982-5465)

DOE Project Coordinator:

H.F. Bauman, DOE-Oak Ridge, (615/574-2037)

Demonstration Project Location: To Be Determined.

On-Site Cleanup

(1) Catalytic Destruction

000*/EPA Hazardous Waste Cooperative Effort

Title: Catalytic Destruction of Air Stripped VOCs

Project Objective(s): 1) To conduct fundamental studies on the catalytic destruction of VOCs representative of those being emitted from air strippers used by the USAF to treat contaminated groundwater. Such studies shall examine the role of chemical and mass transfer kinetics for selected catalysts, as well as explore catalyst selectivity and poisoning. 2) To conduct current technology assessments by evaluating off-the-shelf or state-of-the-art catalytic units vis-a-vis their ability to destroy VOCs of interest. Evaluation will include the effect of the following variables on VOC destruction efficiency: temperature, space velocity (reciprocal of residence time), humidity, VOC mixtures, and catalyst geometry and volume.

Description: The fundamental studies are being conducted via multiyear cooperative agreements with Research Triangle Institute (RTI) and the University of Akron. RTI is focusing on the chemical and mass transfer kinetics. Eventually, a predictive model applicable to a variety of VOC compound types (single and mixtures) will be developed, and verified by experimental data. The University of Akron will conduct studies on catalyst selectivity and resistance to deactivation. Emphasis will be placed on VOC mixtures and chlorinated organics. The current technology assessment is being conducted under an EPA contract to Radian Corp. Commercially available catalytic reactors are leased from vendors and tested using VOC mixtures which represent air emissions from groundwater air strippers.

Accomplishments to Date: The off-the-shelf evaluations by Radram have been completed and the final report is being reviewed. Two units were evaluated; one unit was found to be unacceptable for destroying the compounds of concern (fuel components, chlorinated solvents) at our testing conditions. Another unit was able to destroy the compounds with an efficiency of greater than 95%, but high temperatures were required (increase costs). RTI is investigating mixture effects in an attempt to develop a model allowing optimization of the catalytic process. The University of Akron has selected several catalyst supports, catalysts, and reactors and is currently testing the different systems to determine their ability to destroy chlorinated organics.

Expected Start Date (MM/YY): June 1985

Expected Completion Date (MM/YY): September 1988

	<u>FY 85</u>	<u>FY 86</u>	<u>FY 87</u>	<u>FY 88+</u>
EPA Resources Required:	\$100K	0	0	\$100K
000 Resources Required:	\$200K	90K	\$150K	\$100K

(Note: 000 funding for FY 86 is AF only; past FY 86 is projected.)

EPA Project Coordinator:

Dr. Bruce Tichenor (915/541-2991) and (FTS/629-2991)

000 Project Coordinator:

Capt. Richard Ashworth, USAF; AFESC/ROVW, (904/283-4633; AUTOVON 970-4628)

Demonstration Project Location: Laboratory research.

OOD*/EPA Hazardous Waste Cooperative Effort

Title: Regeneration of Activated Carbon

Project Objective(s): Determine the feasibility of regenerating explosives-laden carbon resulting from wastewater treatment processes. In addition, a study will be performed to evaluate the use of the EPA mobile carbon regenerator on this carbon.

Description:

- a. Chemical and physical characterizations of spent carbon laden with explosives will be performed in order to determine the technical and safety aspects involved in regenerating this carbon.
- b. Technical and economic analyses of alternative technologies for regeneration of activated carbon.
- c. The EPA mobile carbon regenerator will be evaluated with respect to economic, technical, and potential hazards associated with its use to regenerate activated carbon will be conducted.
- d. Pending the outcome of the above tasks, the EPA mobile regenerator will be field demonstrated at an Army facility.

Accomplishments:

- a. Coordinated Army effort with EPA, 6 Mar 86.
- b. Initiated Army effort, 1 May 86.

Plans:

- a. Performance of physical and chemical characterizations of spent activated carbon to be completed, 1 Nov 86.
- b. Complete evaluation of EPA mobile regenerator and provide recommendations for field testing, 1 Dec 86.
- c. Conduct state-of-the-art regeneration technology evaluation, 1 Dec 86.

Expected Start Date: Mar 1986

Expected Completion Date: May 1987

	<u>FY 85</u>	<u>FY 86</u>	<u>FY 87*</u>	<u>FY 88*</u>
EPA Resources Required:		0	50K	Unk
OOD Resources Required:	0	350K	100K	Unk

EPA Project Coordinator:

Richard Traver (201/321-6677)
Ron Hill, EPA/HWERL, (513/569-7861)

OOD Project Coordinator:

Janet Mahannah, USATHAMA, (301/671-2054)
Robert Bartell, USATHAMA, (301/671-2054)

Demonstration Project Location: Candidate Sites - Radford Army Ammunition Plant, VA; Mississippi Army Ammunition Plant; Iowa Army Ammunition Plant.

* Does not include funds for field testing.

On-Site Cleanup
(3) Aqueous-Based
Extraction Techniques

DOO/DOE/EPA* Hazardous Waste Cooperative Effort

Title: Evaluate Decontamination of Excavated Soils Using Aqueous-Based
Extraction Techniques

Project Objective(s): To evaluate the application of EPA-developed contaminant extraction techniques to excavated soils at selected DOE waste cleanup sites.

Description: The proposed project would be conducted in four phases:

- A. Identify candidate sites(s) having organic/inorganic contaminants and soil types amenable to extraction with aqueous-based solvents, and conduct preliminary laboratory feasibility testing; determine range of decontamination possible.
- B. Based upon the results of Phase A, conduct more detailed laboratory tests and define engineering unit processes that would be applicable; prepare detailed laboratory tests and define engineering unit processes that would be applicable; prepare detailed plans for pilot/field tests.
- C. Based upon the results of Phase B, conduct pilot scale testing under controlled conditions with limited quantities of contaminated soils; tests may or may not be in-field.
- D. Based upon the results of Phase C, conduct 30-day field demonstration of technology application.

Expected Start Date: 01/87
Expected Completion Date: 09/88

	<u>FY 86</u>	<u>FY 87</u>	<u>FY 88</u>	<u>FY 89+</u>
EPA Resources Required:	0	\$100K	\$300K	0
DOE Resources Required:	0	\$100K	\$300K	

EPA Project Coordinator:
Frank Freestone (201/321-6632)
Ronald D. Hill, EPA/HWERL, (513/569-7861)

DOE Project Coordinator:
H.F. Bauman, DOE-Oak Ridge, (615/574-2037)

DOO Project Coordinator:
Doug Downey, HQ AFESC/RDV (904/283-2942)

Demonstration Project Location: Candidate Site; To be proposed.

On Site Cleanup
(4) Surface-Based Treatment
of Groundwater

EPA/DOD*/DOE Hazardous Waste Cooperative Effort

Title: Surface-Based Biological Treatment of TCE Contaminated Groundwater

Project Objective(s): To field demonstrate the effectiveness of a surface-based biological treatment system for renovating groundwater contaminated with trichloroethylene (TCE). This project is a follow-on to the basic laboratory study demonstrating the biodegradation of TCE to carbon dioxide in aerobic systems exposed to methane gas.

Description: The demonstrations will be conducted at an Air Force base on a site identified by the Installation Restoration Program (IRP). A contractor will design, construct, operate, and monitor the treatment system in cooperation with AFESC. The surface-based treatment system will consist of a non-reactive vessel packed with a coarse-sandy soil containing aerobic microorganisms capable of degrading TCE in the presence of methane. The TCE contaminated groundwater will be pumped through the vessel and coarse-sandy soil countercurrent to a mixture of natural gas and air. The system will be operated under various conditions during seasonal changes to evaluate the effects of environment on operating parameters and biological activity. The results will be used to develop treatment systems in support of Phase Four of the IRP at other Air Force installations with similar contamination.

Accomplishments to Date: New project for FY 86.

Expected Start Date: 10/86

Expected Completion Date: 03/98

	<u>FY 85</u>	<u>FY 86</u>	<u>FY 87</u>	<u>FY 88</u>	<u>FY 89+</u>
EPA Resources Required:	0	0	\$ 50K**	\$ 50K**	0
DOD Resources Required:	0	0	\$250K	\$150K	0

EPA Project Coordinator:

Dr. William J. Dunlap, EPA/RSKERL (FTS/743-2414)

DOD Project Coordinator:

Capt. Richard A. Ashworth, USAF AFESC/RDVW (904/283-4628)

DOE Project Coordinator:

H.F. Bauman, DOE-Oak Ridge, (615/574-2037)

Demonstration Project Location: To be determined

** Projected

Containment
(1) Bentonite Clay Barrier

DOD*/EPA Hazardous Waste Cooperative Effort

Title: Evaluation of Bentonite Clay Containment Barriers

Project Objective(s): Evaluate the chemical and physical properties of the bentonite clay barrier installed at Rocky Mountain Arsenal to determine the effects of contaminant exposure on barrier stability.

Description:

- a. Develop study plan for evaluation of bentonite barrier performance at Rocky Mountain Arsenal. Plan will address possibility and means of sampling actual RMA barrier materials without adversely effecting barrier performance.
- b. In conjunction with employment of Corps of Engineers, developed leachate modeling methodology, perform field sampling of RMA barrier materials and/or simulate field conditions for laboratory study purposes.
- c. Perform laboratory study of RMA barrier materials (actual and/or simulated) to determine chemical and physical characteristics before and after exposure to RMA contaminants.
- d. Analyze data generated by Items b and c to determine effects of contaminants on specific bentonite properties and on barrier stability.
- e. Prepare technical report describing findings of study and offering recommendations for further study, barrier performance optimization, and additional field testing.

Milestones:

30 Jun 86	Initiate Study
30 Jul 86	Draft Test/Evaluation Plan
30 Apr 87	Complete All Testing and Analyses
30 Jun 87	Draft Technical Report

EPA Resources Required:	<u>FY 86</u>	<u>FY 87</u>	<u>FY 88+</u>
	0	0	0
DOD Resources Required:	722K		

EPA Project Coordinator:

Walter Grube, EPA/HWERL, (513/569-7795)
Ron Hill, EPA/HWERL, (513/569-7361)

DOD Project Coordinator:

David Strang (303/289-2119)
Col. Wallace Quintrell, USATHAMA, (301/671-3434)

Demonstration Project Location: Rocky Mountain Arsenal, Denver, CO.

Containment
(2) Abatement of Releases
with Foams

EPA*/DOD/DOE Hazardous Waste Cooperative Effort

Title: Evaluation of the Effectiveness of Foams to Abate Unconfined Releases of Toxic Gases

Project Objective(s): Evaluate at full scale the effectiveness of fixed foam systems developed to abate chemical process plant toxic gaseous releases, including measuring percent abatement and identifying possible improvements.

Description: In an effort to prevent a repetition of the catastrophic Bhopal release, the EPA will embark on a program to upgrade foam systems that were developed earlier to mitigate releases of rocket propellant component chemicals. The intent is to develop a generic fixed foam generation system capable of coping with a large variety of hazardous and toxic gaseous releases that may be expected to occur within a chemical manufacturing, processing or using facility. The actual testing will need to be carried out at the large-scale research facility in Nevada operated by Lawrence Livermore Labs for DOE. This technology is also of direct relevance to DOD and DOE programs. Joint process reviews--technical and program--and exchanges of information will be accomplished via project coordinators identified below.

Expected Start Date: 07/87

Expected Completion Date: 12/89

	<u>FY 86</u>	<u>FY 87</u>	<u>FY 88</u>	<u>FY 89+</u>
EPA Resources Required:	0	\$100K	\$200K	\$200K
DOD Resources Required:	0	\$ 25K	\$200K	\$200K
DOE Resources Required:	0	\$ 25K	\$200K	\$200K

EPA Project Coordinator:

John Brugger (201/321-6634)

Ronald D. Hill, EPA/HWERL, (513/569-7861)

DOD Project Coordinator:

Maj. Ken Den Bleyker, HQ AFESC/ROV (904/283-4234)

DOE Project Coordinator:

H.F. Bauman, DOE-Oak Ridge (615/574-2037)

Demonstration Project Location: DOE Frenchman's Flat, NV Facility

Candidate Site: NA

DOD/DOE/EPA* Hazardous Waste Cooperative Effort

Title: Evaluation of Performance of RCRA-Design Cover System

Project Objective(s): To assess the effectiveness of a landfill cover system constructed in accordance with RCRA requirements and guidance. The effectiveness is the ability of the system to prevent the passage of water through it into the underlying waste mass. The project will also determine the validity of the HELP model in predicting water passage through the cover that is to be assessed.

Description: The ability of a landfill cover, that meets RCRA requirements and guidance, in preventing the passage of water through it, has not been determined. The determination will require finding such a cover system for which detailed information is available on design, construction, and construction quality control. It is probable that such a system exists at a DOD or DOE site for which access may be obtained for the assessment. The assessment would be planned for a period long enough to determine the maximum rate of leakage. An important part of the assessment would be the development of, or assistance in the development of, a technique to locate the site of cover leakage and to determine the rate of leakage. The assessment might then use the technique as the principal method of performance assessment, through its use in occasional or continuous surveys. The assessment would be the first of several that would examine cover performance in various circumstances of design and/or site conditions.

Cover performance assessments will provide the principal means for verifying the effectiveness of pertinent containment regulations, and for determining the need for increasing or lessening the requirements.

Expected Start Date: FY 87

Expected Completion Date: FY 90

	<u>FY 86</u>	<u>FY 87</u>	<u>FY 88</u>	<u>FY 89+</u>
EPA Resources Required:	0	150	200	150
DOE Resources Required:	0	150	200	150

Estimated Total Resources Required: \$1000K

EPA Project Coordinator:
Ron Hill, HWERL (513/569-7861)

DOD Project Coordinator:
Robert Bartell, USATHAMA (301/671-2054)
Doug Downey, HQ AFESC/RDV (904/283-2942)

DOE Project Coordinator:
D.W. Burton, DOE-Oak Ridge (615/574-3767)

DOD/DOE/EPA* Hazardous Waste Cooperative Effort

Title: Assessment of Performance of Double Liner Systems

Project Objective(s): To determine the long-term effectiveness of RCRA required double liner systems in containing hazardous waste and leachate, i.e., preventing the passage of liquid either in or out of the containment structure. A containment structure may be either a surface impoundment or a landfill.

Description: The long-term effectiveness of RCRA-required double liners in containing waste and leachates has not been determined. The determination will require finding one or more sites for which detailed information is available on design, construction, and construction quality control. It is probable that such a site exists at a DOD or DOE site for which access may be obtained for the assessment. The assessment shall be planned for a period long enough to determine the maximum rate of leakage through the top liner, or for a period long enough to determine that measurable leakage will not occur. A diligent attempt shall also be made to determine if the bottom liner leaks or is subject to leaks. The project may require, or make it desirable, that technology be developed to detect leakage in very small amounts, e.g., a variant of electrical resistivity techniques.

Several variants of a double liner system are possible. For example, the bottom liner may be a flexible membrane in combination with a clay layer or it may be a clay layer alone. The project would select one variant for its first task. If successful, one or more other variants will be selected for further assessment.

Expected Start Date: FY 86
Expected Completion Date: FY 90

	FY 86	FY 87	FY 88	FY 89+
EPA Resources Required:	30	120	200	150
DOD/DOE Resources Required:	0	150**	200**	150**

Estimated Total Resources Required: \$1000K

EPA Project Coordinator:

Ron Hill, HWERL (513/569-7861)
Robert Hartley, HWERL, (513/569-7838)

DOD Project Coordinator:

Bob Riggins, CERL (800/872-2375); Doug Downey, HQ AFESC/RDV (904/283-2942)
Bill Powers, NCEL (805/982-5465); Norm Francenques (601/634-3111)

DOE Project Coordinator:

D.W. Burton, DOE-Oak Ridge (615/574-3767)

** Indicates funding requested by EPA not funding committed by DOE or DOD.

DOD/DOE/EPA* Hazardous Waste Cooperative Effort

Title: Stabilization of Hazardous Waste at Superfund Sites

Project Objective(s): To conduct assessments of the effectiveness of stabilization processes under field conditions.

Description: EPA and other federal agencies have conducted studies on solidification and stabilization processes. EPA desires to conduct demonstrations of some of the more promising techniques to determine: (1) the reliability of laboratory tests to predict field performance, and (2) to determine the longer term performance of these process products under actual field weathering conditions.

Vendors will be asked to stabilize hazardous waste on-site. The field evaluation will be preceded by a laboratory evaluation. Materials stabilized in the field will then be monitored to determine their weathering characteristics and leachability. Results of field monitoring will be compared to the earlier laboratory predictions.

Tasks:

1. Determine and select waste candidates and solidification - stabilization processes of interest.
2. Conduct necessary laboratory tasks.
3. Determine scale of field implementation,
4. etc.

Expected Start Date: October 1986

Expected Completion Date: September 1989

	<u>FY 87</u>	<u>FY 88</u>	<u>FY 89</u>	<u>FY 90</u>
EPA Resources Required (\$K):	150	150	150	150
DOD Resources Required (\$K):				
DOE Resources Required (\$K):				

EPA Project Coordinator:

Donald E. Sanning, EPA/HWERL, (513/569-7861) (FTS/684-7861)

DOD Project Coordinator:

Dave Palmer (202/694-3434)

Capt. Ray Peters, USAF; AFESC/RD VW, (904/293-4628)

DOE Project Coordinator:

O.W. Burton, DOE-Oak Ridge (615/574-3767)

Demonstration Project Location: Rocky Mountain Arsenal; Other DOD/DOE sites

EPA*/DOE Hazardous Waste Cooperative Effort

Title: Sampling Method for Reactive POHC from Incineration

Project Objective(s): To select and test a sampling method that preserves the integrity of substances sensitive to chemical reactions during sampling.

Description: Several situations exist in which difficulties have been encountered in choosing a reasonable principal organic hazardous constituent (POHC) for permitting trial burns related to DOD facilities. Some of the potential candidates such as diphenylamine have been avoided due to preliminary evidence that material collected in various parts of the sampling train may react with nitrogen oxides in the stack gas. Consideration is currently being given to conductivity trial burns at these facilities with surrogate POHC materials, but it would be more desirable to identify and test a sampling method that avoids the reaction problem in the first place.

Recommended Approach: A contract will be procured to perform the proposed research in two major portions:

FY 87 - The contractor will identify three or more compounds in addition to diphenylamine that are of concern as problem POHCs in sampling situations involving DOD and EPA. Potential new designs or modifications to existing sampling systems will be evaluated for potential for laboratory studies. One or more of these methods will be subjected to laboratory recovery studies using synthetic flue gas. A research report on the laboratory studies will be written and published as an EPA report.

FY 88 - One or more of the candidates, with successful results in the lab studies, will be selected for field trial. This trial will be conducted at a DOD facility if possible or a suitable substitute if not. A field trial research report will be written and published as an EPA report.

Expected Start Date: FY 87

Expected Completion Date:

	<u>FY 87</u>	<u>FY 88</u>
EPA Funding Required:	\$150K	\$150K

EPA Project Coordinator:

Larry D. Johnson, USEPA/AEERL, (919/541-7943)

DOE Project Coordinator:

J.C. Parker, DOE-Oak Ridge (615/576-1591)

DOD/DOE/EPA* Hazardous Waste Cooperative Effort

Title: Stability and Holding Times for Environmental Samples

Project Objective(s): The purpose of this study is to define the time frame in which environmental samples can be expected to remain stable, and to recommend storage conditions which maximize this holding time without undue expense.

Description: Currently there are not adequate guidelines based on hard scientific data for holding environmental samples, especially organic compounds in solids. The study design will accommodate as many of the high priority variables as possible. These include: Sample type, level of contamination, storage condition, and time intervals. Efforts during the first year will be primarily involved with obtaining, characterizing, developing, and spiking (if necessary) materials to be used in the study. It is intended to phase the study throughout the next two years in order to maintain an even workload. Some interim results, however, should be available during FY 87.

Expected Start Date: 01/86

Expected Completion Date: 09/88

	FY 86	FY 87	FY 88+
DOE Resources Required:	70.0K	70.0K	70.0K
DOD Resources Required:	350.0K	300.0K	200.0K
EPA Resources Required:	15.0K	500.0K	350.0K

(In-House)

DOE Project Coordinator:

Mike Maskarinec, ORNL, (615/574-4864)

DOD Project Coordinator:

Ann Ryan, USATHAMA, (301/671-2466)

Kenneth Lang, USATHAMA, (301/671-2466)

Maj. Nils Akerlind, USAF; AFESC/RDV, (904/283-4297)

EPA Project Coordinator:

Dave Bottrell, EMSL-LV, (702/798-2142)

Llew Williams, EMSL-LV, (702/798-2138)

Demonstration Project Location: Oak Ridge National Laboratory; Superfund Contract Laboratories.

DOD*/EPA Hazardous Waste Cooperative Effort

Title: Automated Organotin/Organometal Monitoring System and QA/QC Protocols for Analysis

Project Objective(s): Develop and operationally test an automated organotin monitoring system for near real time analysis in the aquatic environment. Develop methodology for standardized QA/QC protocols for measurement of organotin and other organo-metal compounds in marine waters. Fabricate three systems for field use.

Description: An analytical method for trace measurement of organotin in seawater has been optimized using hydride reduction to form volatile tin hydrides which are concentrated in a liquid nitrogen cooled column and volatilized into a hydrogen flame quartz burner followed by detection in an atomic absorption spectrophotometer. A prototype microcomputer-based field instrument using this hydride derivatization technique is in the final stages of development. The instrument uses a combination of a unique variable temperature trap, a custom designed reaction vessel and a series of valves and pumps to automate the optimized method yielding rapid and reproducible analytical results. The method can also be used for other organo-metallics, such as ethyl-lead or methyl-mercury as well as arsenic or selenium. National Bureau of Standards is participating in the method development and intercomparison efforts.

Progress To Date:

May 1985	Initiated DOD/EPA cooperative effort
Aug 1985	Initiated request to EMSL, Las Vegas for joint effort
Sep 1985	Met with EPA to discuss scientific issues, including methods development
Oct 1985	Successful test of prototype automated organo-tin analyzer in San Diego Bay
Jun 1986	Navy/EPA/NOAA workshop on organo-tin methods and monitoring
Jun 1986	Developmental test of automated system at Norfolk completed
Sep 1986	Presented papers on automated analyzer and methodology at Oceans '86 Organotin Symposium

Current Program Requirements:

- Additional funding to achieve design specs for accuracy, reliability, size and ease of use, develop design specifications for procurement, and perform operational test and evaluation.
- Participation and guidance from EPA and NBS in the development of standardized QA/QC protocols for organotin analysis.

<u>Expected Start Date:</u>	Prototype Fabrication:	October 1983
	Developmental Test and Evaluation:	October 1985
	Operational Test and Evaluation:	March 1987
<u>Expected Completion Date:</u>	Prototype development:	September 1985
	Developmental Test and Evaluation:	September 1986
	Operational Test and Evaluation:	September 1988

	<u>FY 87</u>	<u>FY 88</u>	<u>FY 89</u>
EPA Resources Required:	None		
DOD Resources Required:	\$200K	\$200K	\$175K

EPA Project Coordinators: John Koutsandreas, OADEMQA, (202/382-5789); Steve Billets, EMSL-LV, (702/798-2232)

DOD Project Coordinators: Paul Yaroschak, COMNAVFACENGCOM, (202/325-0431) and Pete Seligman, NOSC (619/225-7697)

Demonstration Project Location: Naval Ocean Systems Center (NOSC), Code 522, San Diego, CA 92152-5008.

Cooperating Agencies: National Bureau of Standards (F.E. Brinkman)

Site Assessment

(4) Use of Bioassay Data for
Cleanup Strategies

DOD/EPA Hazardous Waste Cooperative Effort

Title: Application of Statistically Defined (Kriging) Toxicity Gradients
to the Design of Cleanup Strategies

Project Objective(s): To determine the general applicability of kriged bioassay data from field sites to help define toxicity gradients, cleanup scenarios, and post cleanup monitoring designs.

Description: The most direct method of determining toxicological impacts in the field is to conduct biological surveys. However, these surveys are both costly and time consuming. An alternative might be to collect limited field data and incorporate them into an environmental risk assessment model to predict a risk probability. The state-of-the-art of environmental risk assessment is not well developed and the output is not directly applicable to definition of the problem quantitatively. A compromise between these two procedures is to subject limited bioassay data to analysis by kriging with its concomitant generation of toxicity isopleths. The procedure has the advantage of requiring a limited amount of data input and it provides direct quantitative estimates of aquatic/terrestrial ecological toxicity impacts and/or chemical intensity throughout the impacted area.

The procedure has been applied at one site (Rocky Mountain Arsenal) with good results. There was a high degree of correlation between phytotoxicity assays and actual field data. Also, when the bioassay data were subjected to analysis by kriging and presented in isopleth form, the results corresponded positively with field truth data. If this finding holds up under closer scrutiny at other sites, it should be very useful in defining problem areas and in designing remedial or cleanup actions.

Start Date: 10/85

Expected Completion Date: 09/88

	<u>FY 85</u>	<u>FY 86</u>	<u>FY 87</u>	<u>FY 88</u>
EPA Resources Required:	0	\$30K	\$300K	\$200K
DOD Resources Required:	0	\$300K	\$300K	\$300K

EPA Project Coordinator:

Spencer A. Peterson, EPA/ERL-Corvallis, OR, (503/757-4605)

William Miller, EPA/ERL-Corvallis, OR, (503/757-4776)

George Flatman, EMSL-LV, (702/798-2628)

DOD Project Coordinator:

William H. Collins, USACRDEC, (301/671-2139)

Randy Hana, Ft. Lewis, WA, (206/967-4076)

Demonstration Project Location: Aberdeen Proving Ground, MD; Ft. Lewis, WA
or alternate site selected jointly by EPA/DOD.

Site Assessment
(5) Monitoring and Modeling
Subsurface Transport

DOE*/DOD/EPA Hazardous Waste Cooperative Effort

Title: In-Situ Monitoring of Organics

Project Objective(s): To develop a method of predicting and monitoring the migration of hazardous organic compounds in the subsurface environment, based on the release and monitoring of nontoxic, highly mobile organic tracers. The goal is to field calibrate the models used to predict the movement of underground plumes of hazardous wastes by observing the movement of highly mobile tracers.

Description: A tracer sampling pipe will be developed for use with an auger or drive sampler. The correlation of tracers to various pollutants will be determined in the laboratory, using soils from the waste sites of interest. Sorption, desorption, and solid-liquid-vapor partitioning coefficients for each pollutant and tracer will be determined. For field application a performance model, the WAFE code from Los Alamos National Laboratory, will be modified to accept the tracer and pollutant parameters. Field data will be used to validate the model and the developed technique will be applied at two or three field sites. Information on the cost and application of the technique will be made available for technology transfer.

Expected Start Date: FY 1986
Expected Completion Date: FY 1989

	<u>FY 86</u>	<u>FY 87</u>	<u>FY 88</u>	<u>FY 89+</u>
EPA/DOD Resources Required:		\$200K**	\$200K**	\$100K**
DOE Resources Required:	\$140K	\$100K	\$100K	\$100K

DOE Project Coordinator:
H.F. Bauman, DOE-Oak Ridge (615/574-2037)

EPA Project Coordinator:
Herb Quinn, EPA/ORD (202/382-5940)
John Koutsandreas, OADEMQA/ORD (202/382-5789)

DOD Project Coordinator:
Bob Riggins, CERL (800/782-2375)
Kenneth Lang, USATHAMA (301/671-2466)
Maj. Thomas Walker, HQ AFESC/RDV (904/283-4628)

Demonstration Project Location: REECo, Nevada Test Site

** These amounts do not necessarily represent committed funding from EPA and DOD.

ODD/EPA* Hazardous Waste Cooperative Effort

Title: Integrated Monitoring System for ODD Hazardous Waste Site Assessment

Project Objective(s): To develop and implement an integrated approach to the assessment of ODD hazardous waste sites, which would include sample collection, rapid, on-site chemical and biological screening methods, remote laboratory chemical and biological (toxicity) analyses, and procedures and systems for data management and interpretation. Currently available methods will be evaluated and new, rapid, methods will be developed and validated in the field and laboratory as required to provide timely, cost effective, and relevant results from site assessments. Quality Assurance (QA) guidelines will be developed and a site assessment manual will be prepared.

Description: Multi-disciplinary EPA field teams will visit ODD hazardous waste sites and, in cooperation with ODD personnel, will select and/or develop, evaluate, and validate appropriate sampling and screening methods. Rapid chemical and biological (toxicity) screening tests will be conducted on-site. Where necessary, samples will be shipped to the laboratory for analysis. Laboratory tests for further chemical and biological screening and analyses will be selected and/or developed, evaluated, and validated. A data management and evaluation system for hazardous waste samples will be developed and refined. A site-assessment guidance document which includes detailed QA guidelines will be prepared, field validated, and finalized.

Expected Start Date: October 1986

Expected Completion Date: September 1991

	<u>FY 87</u>	<u>FY 88</u>	<u>FY 89</u>	<u>FY 90+</u>
EPA Resources Required:	\$500K	\$500K	\$500K	730
ODD Resources Required:	\$500K	\$500K	\$500K	780

EPA Project Coordinator:

Cornelius Weber, EPA/EMSL-Cin, (513/684-7301)

Jim Lichtenburg, EPA/EMSL-Cin, (513/684-7301)

ODD Project Coordinator:

Lt. Col. Robert Lombard, HQ USAF/SGPA (202/697-1736)

DOE Project Coordinator:

Mr. Bob Strickler, DOE-HQ, (FTS/252-4160)

O.W. Burton, DOE-Oak Ridge (615/574-3767)

Demonstration Project Location:

EPA*/DOD/DOE Hazardous Waste Cooperative Effort

Title: Air Monitoring and Quality Assurance Support

Project Objective(s): Provide monitoring and quality assurance advice and support for environmental measurement activities. Establish a network for exchange of QC materials and information and work toward standardization of QA/QC procedures between the Agencies.

Descriptions: The Office of Acid Deposition, Environmental Monitoring and Quality Assurance (QAEMQA) has unique expertise in monitoring for a wide variety of compounds in various media and in developing and providing quality assurance materials that support these monitoring operations. Much of this expertise has been used in an informal manner by the DOD. The intent of this project would be to formalize these support activities and would center on analytical calibration standards, QC materials and on standardization of laboratory QA/QC procedures. Additional meetings will have to be held to develop detailed resource requirements and identify the specific project elements.

Expected Start Date: 10/86
Expected Completion Date: Continuing

	<u>FY 86</u>	<u>FY 87</u>	<u>FY 88</u>
DOE Resources Required:			
EPA Resources Required:	1.5M	1.5M	1.5M
DOD Resources Required:			

EPA Project Coordinator:

Gareth Pearson, EPA/EMSL-LV, (702/798-2383)
John Winter, EPA/EMSL-Cin, (513/684-7325)
Jack Puzak, EMSL-RTP, (919/541-2106)

DOD Project Coordinator:

Dennis Wynne, USATHAMA, (301/871-2466)
Maj. Nils Akerlind, USAF; AFESC/RDVM, (904/283-4297)

DOE Project Coordinator:

T.E. Horne, DOE-Oak Ridge (615/576-1949)

Demonstration Project Location: EMSL-LV, EMSL-CIN, EMSL-RTP

DOD/DOE/EPA* Hazardous Waste Cooperative Effort

Title: On-Line Continuous Emission Monitoring of Hazardous Waste Incinerators

Project Objective(s): (1) to investigate the feasibility of using a mass spectrometer (MS) for monitoring the organic emissions of an incinerator on a real-time basis; (2) to demonstrate the use of the MS as a continuous monitor while using the Hazardous Air Pollutants Mobile Laboratory (HAPML) to provide continuous emission monitor (CEM) data and process parameter information for characterization of two DOD incinerators; (3) to evaluate other existing optical analytical techniques for potential use as CEMs for incineration research; (4) to modify those optical instrument(s) that are found to have potential for use as CEMs after laboratory testing and field test the instruments at a DOD facility.

Project Description: The first problem that must be addressed is that of sample integrity. In order to obtain organic data on a real-time basis, an intact sample must be delivered from the stack to the analytical instrument. Available sample lines materials and sample delivery systems must be evaluated for this use. An on-line concentration system will be developed for use when the concentration of the sample of interest is below the detection limit of the instrument. After the sample delivery system is developed, it will be installed on the HAPML along with the MS. The HAPML, developed by EPA, will be transported to a DOD incinerator for a field-test of the MS and sample delivery system. The HAPML, equipped with O₂, CO₂, CO, NO_x, SO₂, and HCl CEMs as well as process parameter monitors, will provide an on-site facility for the MS work and additional information for characterization of the incinerator. The third portion of the project will concentrate on evaluating other existing analytical techniques for potential use as CEMs. Possible instruments include the Fourier Transform Infrared Spectrometer and the Tunable Diode Laser. The final phase of the project will field test the techniques that were found to be promising in the laboratory tests. The HAPML and the sampling system developed earlier will again be used for this purpose at a DOD incinerator.

EPA Resources Required:	<u>FY 87</u> \$100K	<u>FY 88</u> \$100K	<u>FY 89</u> \$100K	<u>FY 90</u> \$100K
DOD/DOE Resources Required:		(To Be Determined)		

EPA Project Coordinator:
Sharon L. Nolan, AEERL, (919/541-7607)

DOD Project Coordinator:
Mr. S.B. Joshi, HQ AFESC/RDV, (904/283-4234)

DOE Project Coordinator:
J.C. Parker, DOE-Oak Ridge, (615/516-0715)

DOD*/EPA Hazardous Waste Cooperative Effort

Title: Health Impacts of Chemically Contaminated Groundwater
(An Examination of Complex Mixtures)

Project Objective(s): (1) To determine the mechanisms of action on whole animals after exposure to mixtures of two or more hazardous compounds and (2) to develop a model of the physiological response of animals exposed to complex mixtures.

Description: The U.S. Environmental Protection Agency and the U.S. Air Force will jointly fund a three-year study of health effects associated with exposure of Volatile Chlorinated Hydrocarbons suspected of contaminating ground water. The Medical College of Virginia will conduct in-vitro and in-vivo studies to assess the toxicity of mixtures of carbon tetrachloride, chloroform, ethylene dichloride, 1,1 Dichloroethane, and trichloroethylene. The University of Michigan will develop models to predict the toxicity (oral vs. inhalation) of mixtures of 1,1 Dichloroethylene and Vinylidene Chloride and 1,1 Dichloroethane and 1,2 Dichloroethylene. The University of Arizona will determine the possible interactive hepato-toxicity that may result from simultaneous or sequential exposure of animals (or hepatic tissue or cells) to a number of halogenated aliphatic and aromatic hydrocarbons.

Expected Start Date: July 1985

Expected Completion Date: July 1988

	FY 85	FY 86	FY 87	FY 88+
EPA Resources Required:	650K	250K	200+K	(UNK)
DOD Resources Required:	450K	200K	200K	(UNK)

EPA Project Coordinator:

Dr. Lyman Condie (Health Effects Research Lab, Cincinnati)

Dr. Michael A. Berry (Environmental Criteria & Assessment Office, RTP, NC)

DOD Project Coordinator:

Lt. Col. Robert Lombard, USAF SGO, (202/767-1736)

Capt. Michael Shelley (Wright Patterson AFB, Ohio)-Aerospace Medical Research Laboratory, (513/255-5740)

Demonstration Project Location:

Medical College of VA
University of Michigan
University of Arizona

DOD*/EPA Hazardous Waste Cooperative Effort

Title: Uncertainties in Carcinogenic Risk Assessment

Project Objective(s): To identify and quantify uncertainties in carcinogenic risk assessment.

Description: The decision of when and to what degree to cleanup hazardous waste sites frequently depends on the long term health implications from a carcinogenic risk assessment. This ongoing study combines all human and animal data for 40 chemical compounds identified by DOD from groundwater contamination studies to compute the effect of alternative approaches on the final risk assessment.

Phase I: Data collection and risk estimation.

- o Over 800 data sets have been analyzed and entered into a computerized data matrix designed to test various assumptions.
- o A linear multistage model is used for human and animal data to evaluate the effect of assumptions dealing with species sensitivity, equivalent dose, tumor selection, pharmacokinetics and metabolism, and length of exposures.

Phase II: Evaluate risk estimates with the best correlation between human and animal data. Show the range of risk estimates based on different assumptions and suggest guidelines.

Expected Start Date: September 1984

Expected Completion Date: September 1986

	<u>FY 85</u>	<u>FY 86</u>	<u>FY 87</u>	<u>FY 88+</u>
EPA Resources Required:	\$ 75K	0		
DOD Resources Required:	\$250K	0		

EPA Project Coordinator:
Dr. Chou Chen (202/382-5719)

DOD Project Coordinator:
Lt. Col. Dennis Naugle, OASD, (202/695-7820)
Capt. Michael Shelley, Wright-Patterson AFB, Aerospace Medical Research
Lab, (513/255-5740)

Demonstration Project Location: Ruston, Louisiana (K.S. Crump and Co., Inc.)

DOE*/DOD/EPA Hazardous Waste Cooperative Effort

Title: Risk Assessment Methodology

Project Objective(s): To develop and demonstrate an improved risk assessment methodology for evaluating hazardous waste facilities and handling practices. The methodology is being developed as a tool for use in assigning priorities for action in upgrading waste facilities and/or handling practices at DOE installations.

Description: The methodology will be based on evaluation of the following three factors:

1. Chemical toxicity and/or radiological hazard of the waste.
2. Probability of release.
3. Transport in the environment.

The analysis will determine the appropriate weight to assign to each of the factors. The approach will include a survey of the available techniques in order to select and/or adapt those suitable for the methodology. Where a large number of toxic substances are present at a site, it may be advantageous to classify the wastes into classes in which the constituents react and move similarly, and to select those constituents from each class for analysis that are found to dominate the hazard. The developed methodology will be tested on several cases to prove and/or modify the methodology as necessary.

Expected Start Date: FY 1986

Expected Completion Date: FY 1989

	<u>FY 86</u>	<u>FY 87</u>	<u>FY 88</u>	<u>FY 89+</u>
EPA/DOD Resources Required:		\$70K**	\$100K**	\$75K**
DOE Resources Required:	\$140K	\$70K	\$100K	\$75K

DOE Project Coordinator:

D.W. Burton, DOE-Oak Ridge, (615/574-3767)

EPA Project Coordinator:

Herbert Quinn, EPA/CRD, (202/382-5940)

DOD Project Coordinator:

Dr. David Rosenblatt, USAMCRL, (301/663-2014)

Demonstration Project Location: Sandia National Laboratory

** Indicates funding requested by DOE, not funding committed by DOD or EPA.

Site Assessment
(12) Exposure Assessments

000*/00E Hazardous Waste Cooperative Effort

Title: Analysis of Techniques to Improve Exposure Assessments for Waterborne Contaminants

Project Objective(s): Establish criteria for assessing hazards from domestic water contaminants considering all known routes of exposure.

Description: Project will couple mathematical models for indoor air pollution and physiologically based toxic-kinetics to define absorption, distribution, metabolism, and excretion of contaminants in the body resulting from domestic exposure to waterborne contaminants by oral intake, skin absorption and inhalation.

Expected Start Date: 08/86

Expected Completion Date: 08/87

	<u>FY 85</u>	<u>FY 86</u>	<u>FY 87</u>	<u>FY 88</u>
DOE Resources Required:	0	-	-	-
00D Resources Required:	-	\$150K	Unk	Unk

DOE Project Coordinator:

Dr. David Layton, LLNL, (415/422-8361)
D.W. Burton, ORNL (615/574-3767)

00D Project Coordinator:

Lt. Col. Robert A. Lombard, USAF SGO (202/767-1736)
Capt. Michael Shelley, AAMRL (513/255-2704)

Demonstration Project Location:

DOD/EPA* Hazardous Waste Cooperative Effort

Title: Environmental Risk Assessment for DOD Impacted Estuaries

Project Objective(s): To develop, test, and implement a modeling-based environmental risk assessment procedure for DOD impacted estuaries. Specific objectives include: (1) investigate existing fate and transport models (e.g., TOXIWASP, MINTEQ) for applicability to DOD-related pollutants including inorganics (e.g., metal-based paints) and organics (e.g., cleaning solvents, biocides); (2) develop needed advances in hydrodynamic transport including stratified flow and cohesive sediment movement; (3) develop efficiently linked water quality-hydrodynamic computer codes; and (4) test emerging technologies in environmental risk assessment. Finally, the developed procedures will be demonstrated on an existing site to illustrate capability to manage releases and effects, remediate existing problems, and anticipate future hazardous conditions.

Project Description: EPA and DOD technical experts will evaluate existing sites (e.g., shipyards) where known or emerging problems exist and/or can be sufficiently measured. Models will be selected, modified, and applied to the selected site(s). Where appropriate, laboratory studies on specific pollutants will be conducted to elucidate fate process data and effects. The developed models will be calibrated and validated on existing or study-generated data. Sensitivity analyses and alternative management (or clean-up) scenarios will be investigated. Finally, technology transfer of successful procedures will be targeted to promote general use.

Expected Start Date: Oct 86

Expected Completion Date: Sep 91

	FY 87	FY 88	FY 89	FY 90
DOD Resources Required:	\$500K	\$500K	\$500K	\$500K
EPA Resources Required:	\$500K	\$500K	\$500K	\$500K

EPA Project Coordinator:

Robert Ambrose, EPA/ERL-Athens, (404/546-3546)

Steve McCutcheon, EPA/ERL-Athens, (404/546-3581)

DOD Project Coordinator:

Mr. R.K. Johnston, MESO (NOSC), (619/225-7797)

Mr. Carl Adema, OTRL (Navy), (FTS/980-3831)

Mr. Lee Butler, Waterways Experiment Station (Army), (601/636-2505)

Mr. Mark Dortch, Waterways Experiment Station (Army), (601/636-3517)

Demonstration Project Location: TBD

Site Assessment
(14) Monitoring and Detection

DOE*/DOO/EPA Hazardous Waste Cooperative Effort

Title: In-Situ Detection of Organics

Project Objective(s): To develop a remote fiber spectroscopy system for detection and monitoring of selected hazardous organic compounds in the environment of storage or disposal sites. The goal is to monitor multiple in-situ locations for selected hazardous organic compounds with a single remote instrument connected to fiber optodes.

Description: A prototype portable fiber fluorimeter and a trichloroethylene (TCE) sensitive fiber optic sensor will be designed, constructed, and laboratory tested. A field site will be chosen for in-situ validation and field testing.

Optodes will be developed for other chlorinated organics and for hydrocarbons. Further field testing will extend the applications for the system and provide cost data. As the system is proven, the technology will be made available to the various DOE installations and others that have need for in-situ monitoring.

Expected Start Date: FY 1986

Expected Completion Date: FY 1989

	<u>FY 86</u>	<u>FY 87</u>	<u>FY 88</u>	<u>FY 89+</u>
EPA/DOO Resources Required:		\$250K**	\$250K**	\$250K**
DOE Resources Required:	\$200K	\$150K	\$150K	\$150K

DOE Project Coordinator:

H.F. Bauman, DOE-Oak Ridge (615/574-2037)

EPA Project Coordinator:

John Koutsandreas, OAD/EMQA/ORD/EPA (202/382-5789)

Larry Eccles, EMSL-LV, (702/798-2385)

DOO Project Coordinator:

Kenneth Lang, USATHAMA (301/671-2466)

Maj. Thomas Walker, HQ AFESC/ROV (904/283-4629)

Dr. Steve Lieberman, Navy

Mr. Robert M. Roberts, NCEL, (805/982-4193)

Demonstration Project Location: Lawrence Livermore National Laboratory

** These amounts do not necessarily represent committed funding from EPA and DOO.

000*/EPA Hazardous Waste Cooperative Effort

Title: Remote Sensing Using Aerial Photography

Project Objective(s): Acquisition and interpretation of overhead imagery in support of records search and environmental surveys.

Description: Visual analysis of historical black and white and current color or color infrared aerial photography to locate suspected areas of past use, storage, treatment and disposal of toxic and hazardous materials has proven extremely effective in the Army's Installation Restoration Program. An interagency agreement between EPA's field office, the Environmental Photographic Interpretation Center (EPIC) exists which allows the Army to tap into existing EPA expertise in the field of environmental imagery analysis, specifically in the analysis of active and abandoned hazardous waste sites.

<u>FY</u>	<u>1980</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>1984</u>	<u>1985</u>	<u>1986</u>	<u>1987</u>
(\$000)	15	145	180	140	107.5	283.5	84.5	30
Sites	15	28	44	30	10	34	12	Unk

Expected Start Date: Already underway
Expected Completion Date: October 1987

FY 85 FY 86 FY 87 FY 88+

EPA Resources Required:
000 Resources Required: 300K

EPA Project Coordinator:
Frank Wolte, EPA/EPIC, (703/557-3110)

000 Project Coordinator:
Dennis J. Wynne, USATHAMA, (301/671-2466)
Conrad Swann, USATHAMA, (301/671-2270)

Demonstration Project Location: Multiple sites.

000*/EPA Hazardous Waste Cooperative Effort

Title: Geophysics/Geochemistry Field Investigations

Project Objective(s): To investigate use of remote sensing and nonintrusive sampling to delineate contamination sites as well as to define contaminant plumes to reduce IRP field expenses. By identifying abnormal zones prior to or in conjunction with exploratory drilling, these expensive sampling operations can be targeted to maximize data capture. The use of electromagnetic and seismic geophysics and soil organic vapor (SOV) measurements to define hydrogeologic features and delineate organic contaminants will be investigated.

Description: A methodology study for several types of newly developed SOV measurement techniques to thoroughly define how variability can be introduced into these measurements. Field validation studies of geophysical and SOV measurement techniques at Air Force IRP sites will determine the effectiveness of remote sensing methods and define operational limits for various field conditions. A handbook on how to successfully use remote sensing methods in subsurface contamination investigations will be produced as a result of these efforts.

Accomplishments to Date: Two field studies were completed in FY 85. These studies tested geophysical and SOV methods at sites contaminated with organic chemicals at Phelps-Collins Air National Guard Base, MI, and at Holloman AFB, NM. The results of these studies, and plans for FY 86, were briefed to Air Force and other DOD personnel in January 1986. Current effort is to incorporate the various remote sensing techniques into a comprehensive strategy for investigating sites suspected of having subsurface organic contamination. This strategy will be tested at two Air Force sites in FY 86/87: Tinker AFB and Robins AFB.

Expected Start Date: November 1984

Expected Completion Date: January 1987

	<u>FY 85</u>	<u>FY 86</u>	<u>FY 87</u>	<u>FY 88+</u>
EPA Resources Required:	\$100K	0	0	0
DOD Resources Required:	\$200K	\$200K	0	0

EPA Project Coordinator:

Ann Pitchford, EPA/EMSL-LV, (702/798-2366)

DOD Project Coordinator:

Capt. Edward Meyse, USAF; AFESC/ROVW, (904/293-4629)

Demonstration Project Location: FY 85 - Holloman AFB, NM; Phelps-Collins ANG Base, MI, FY 86 - Robins AFB, GA; Tinker AFB.

DOD*/EPA Hazardous Waste Cooperative Effort

Title: Remote Sensing Using Aerial Photography

Project Objective(s): Acquisition and interpretation of overhead imagery in support of records search and environmental surveys.

Description: Visual analysis of historical black and white and current color or color infrared aerial photography to locate suspected areas of past use, storage, treatment and disposal of toxic and hazardous materials has proven extremely effective in the Army's Installation Restoration Program. An interagency agreement between EPA's field office, the Environmental Photographic Interpretation Center (EPIC) exists which allows the Army to tap into existing EPA expertise in the field of environmental imagery analysis, specifically in the analysis of active and abandoned hazardous waste sites.

<u>FY</u>	<u>1980</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>1984</u>	<u>1985</u>	<u>1986</u>	<u>1987</u>
(\$000)	15	145	180	140	107.5	283.5	84.5	30
Sites	15	28	44	30	10	34	12	Unk

Expected Start Date: Already underway
Expected Completion Date: October 1987

FY 85 FY 86 FY 87 FY 88+

EPA Resources Required:
DOD Resources Required: 300K

EPA Project Coordinator:
Frank Wolfe, EPA/EPIC, (703/557-3110)

DOD Project Coordinator:
Dennis J. Wynne, USATHAMA, (301/671-2466)
Conrad Swann, USATHAMA, (301/671-2270)

Demonstration Project Location: Multiple sites.

Site Assessment
(16) Geophysics Investigations

DOD*/EPA Hazardous Waste Cooperative Effort

Title: Geophysics/Geochemistry Field Investigations

Project Objective(s): To investigate use of remote sensing and nonintrusive sampling to delineate contamination sites as well as to define contaminant plumes to reduce IRP field expenses. By identifying abnormal zones prior to or in conjunction with exploratory drilling, these expensive sampling operations can be targeted to maximize data capture. The use of electromagnetic and seismic geophysics and soil organic vapor (SOV) measurements to define hydrogeologic features and delineate organic contaminants will be investigated.

Description: A methodology study for several types of newly developed SOV measurement techniques to thoroughly define how variability can be introduced into these measurements. Field validation studies of geophysical and SOV measurement techniques at Air Force IRP sites will determine the effectiveness of remote sensing methods and define operational limits for various field conditions. A handbook on how to successfully use remote sensing methods in subsurface contamination investigations will be produced as a result of these efforts.

Accomplishments to Date: Two field studies were completed in FY 85. These studies tested geophysical and SOV methods at sites contaminated with organic chemicals at Phelps-Collins Air National Guard Base, MI, and at Holloman AFB, NM. The results of these studies, and plans for FY 86, were briefed to Air Force and other DOD personnel in January 1986. Current effort is to incorporate the various remote sensing techniques into a comprehensive strategy for investigating sites suspected of having subsurface organic contamination. This strategy will be tested at two Air Force sites in FY 86/87: Tinker AFB and Robins AFB.

Expected Start Date: November 1984
Expected Completion Date: January 1987

	<u>FY 85</u>	<u>FY 86</u>	<u>FY 87</u>	<u>FY 88+</u>
EPA Resources Required:	\$100K	0	0	0
DOD Resources Required:	\$200K	\$200K	0	0

EPA Project Coordinator:
Ann Pitchford, EPA/EMSL-LV, (702/798-2366)
DOD Project Coordinator:
Capt. Edward Heyse, USAF; AFESC/ROVW, (904/283-4629)

Demonstration Project Location: FY 85 - Holloman AFB, NM; Phelps-Collins ANG Base, MI, FY 86 - Robins AFB, GA; Tinker AFB.

DOD*/EPA Hazardous Waste Cooperative Effort

Title: Facilitated Transport of Hydrophobic Compounds

Project Objective(s): To determine the factors affecting the enhanced transport of chemical substances normally not transported or slowly transported through soils and groundwater. Research will be conducted identifying the factors facilitating contaminant transport along with characterizing the chemical, physical, and biological processes affecting the enhanced transport.

Description: The proposed effort will focus on studying the possible enhanced transport of organic compounds produced by their interaction with various microparticles found in groundwater. First, organic carbon sorbents (microparticles) will be collected from natural and contaminated groundwater at various sites throughout the U.S. (including several Air Force bases). The material will be characterized as to organic content, particle size distribution, and surface charge density. Then the sorption constants for various organic chemicals (e.g., cleaning solvents, fuel components) to the microparticles will be experimentally determined. Next the mobility of the organic compound/microparticle particulate through porous media will be investigated. Finally, a transport model will be developed describing the chemical transport mechanism under changing environmental conditions, i.e., pH, ionic strength, and redox potential. The model will be verified using laboratory columns.

Accomplishments To Date: Field samples from Otis ANG have been collected and microparticles containing primarily ferrous iron and phosphate have been isolated. The sorption constants for various organic chemicals will be determined to evaluate the ability of the iron and phosphate microparticles to transport the organic chemicals in subsurface systems. The P.I. is also developing improved procedures for sampling and analysis of subsurface colloids (microparticles).

Start Date: Aug 85

Expected Completion Date: Jan 88

	FY 85	FY 86	FY 87	FY 88+
EPA Resources Required:	\$173K	\$30K	0	0
DOD Resources Required:	0	\$92K	\$100K	0

EPA Project Coordinator:

Dr. Mary Piwni, U.S. EPA/RSKERL, (405/332-8800)

DOD Project Coordinator:

Capt. Richard Ashworth (USAF)HQ AFESC/RDVM, (904/293-4629 AUTOVON 970-4629)

Demonstration Project Location: Laboratory Research Only.

DOD/EPA* Hazardous Waste Cooperative Effort

Title: Transport and Fate of Organics from Aircraft Paint Stripping
Wastewater in the Subsurface Environment

Project Objective(s): The object of this work is twofold: (1) to accelerate and enhance EPA research pertaining to the behavior of organic chemicals in subsurface environments, and; (2) to provide the U.S. Navy with information regarding the treatment and disposal requirements of their aircraft paint stripping wastes.

Project Description: The behavior of selected organic solvents in saturated geological materials characteristic of aquifer systems will be evaluated. Both static and dynamic laboratory experiments will be used to ascertain the treatability and movement of selected chemical constituents of the waste. Simulated aquifers (microcosms) constructed from authentic uncontaminated aquifer material will be employed to study the transport and fate of these pollutants in groundwater environments. Organic compounds used in these studies will include, but not be limited to the following: Phenol, 1,1,1-trichloroethane, toluene, benzene, methylene chloride, naphthalene, and bis(2-ethyl hexyl) phthalate.

Expected Start Date: Jul 86

Expected Completion Date: Jun 97

	<u>FY 85</u>	<u>FY 86</u>	<u>FY 87</u>	<u>FY 88+</u>
DOD Resources Required:		\$150K		
EPA Resources Required:		0		

EPA Project Coordinator:

Marion R. Scalf, R.S. Kerr ERL/Ada, OK, (FTS/743-2408)

DOD Project Coordinator:

A. Law, NCEL, Port Hueneme, CA, (905/982-4116)

Demonstration Project Location: Laboratory research only.

DOD*/EPA Hazardous Waste Cooperative Effort

Title: Data Management System and Mapping

Project Objective(s): Integrate EPA/ORD ARC/INFO Software System with USATHAMA IRDMS (Installation Restoration Data Management System).

Description: EPA currently maintains geographic, geotechnical and chemical analysis data on a VAX 11 computer using ARC/INFO data base system. The system is located at the ORD Lab at the University of Nevada, Las Vegas. They are developing the system to be able to graphically depict the various types of data.

The US Army Toxic and Hazardous Materials Agency currently has map (geographic), geotechnical and chemical analysis data on a UNIVAC 110C computer using System 2000 data base management system. Map location, geotechnical parameters and chemical analysis data are graphically depicted using Surface Display Library graphics software, with output displayable on Tektronix graphics terminals or CalComp plotter.

The cooperative effort will involve examining the efficacy of integrating the two data systems. Once efficacy has been determined, costs and benefits of the implementation will be determined. Finally, should implementation be indicated, responsibilities, schedules, and funding will be determined.

FY 86 Milestones:

11 APR 86	Coordination Meeting at Edgewood to present IRDMS capabilities. discuss funding
30 JUN 86	Define areas of mutual interest: Assign areas of responsibilities, Milestones
15 AUG 86	In-Progress Review
30 SEP 86	Task Review

	<u>FY 85</u>	<u>FY 86</u>	<u>FY 87</u>	<u>FY 88+</u>
EPA Resources Required:	1.5K (travel)	25K	50K	T30
DOD Resources Required:	1.5K (travel)			

EPA Project Coordinator:

John Koutsandreas, JADEMOA, (202/382-5789)
Bob Landers, EMSL-LV, (FTS 545-2260)

DOD Project Coordinator:

Lloyd Holly, USATHAMA, (301/671-2054)
Ronald Roberts, USATHAMA, (301/671-2054)

Demonstration Project Location: Edgewood Area, Aberdeen Proving Ground/ORD Lab, Las Vegas, NV

00D*/EPA Hazardous Waste Cooperative Effort

Title: Toxicology Guide - Toxicological Assessments of Selected (35 or more) Contaminants Found in Groundwater

Project Objective(s): To provide basic toxicology information on groundwater contaminants for Air Force Bioenvironmental Engineers.

Description: The Surgeon General of the U.S. Air Force has directed that a toxicology guide be prepared for Bioenvironmental Engineers. The guide will be distributed in loose leaf form and contain toxicological information on substances that might possibly contaminate groundwater. Information for approximately 35 substances will be issued the first year of the effort. It is not intended that the toxicological information contained in the guide be published in the open literature or used for environmental regulatory decisions. The contractor (A.C. Little and Associates) will prepare the guide based upon literature reviews. EPA will assist in this effort through review and comment on the guide. Follow-on volumes will add 45 or more substances, including commonly found mixtures (e.g., oils, hydraulic fluids, etc.). Subsequent efforts will also update toxicology and regulatory data in the first volume.

Expected Start Date: October 1984

Expected Completion Date: March 1987 (Vol. II), May 1987 (Vol. III)

	<u>FY 85</u>	<u>FY 86</u>	<u>FY 87</u>	<u>FY 88+</u>
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EPA Resources Required:	(Manhours required for review)			
00D Resources Required:	\$450K	\$320K	\$250K	\$100-400K/Yr

EPA Project Coordinator:

Dr. Michael A. Berry, Environmental Criteria & Assessment Office, RTP, NC

00D Project Coordinator:

Lt. Col. Robert Lombard, AF Surgeon General's Office, (202/767-1736)
Capt. Michael Shelley, Armstrong Medical Research Lab, (513/255-5740)

Project Location: Armstrong Aerospace Medical Research Laboratory-Dayton, OH

DOE/EPA* Hazardous Waste Cooperative Effort

Title: Hazardous Waste Data Base Program

Project Objective(s): The objective of the Hazardous Waste Data Base Program is to further expand an existing EPA computerized data storage program to include additional incinerators, boilers, or similar industrial thermal equipment of specific interest to DOD.

Description: The EPA has been developing and utilizing a computerized system for recording and easily recalling for use a large inventory of incinerator, boiler, cement kiln, and other thermal destruction device data which EPA calls its "Hazardous Waste Data Base Program." This program has begun to serve the needs of EPA's RCRA and TSCA incineration permitting staff in Headquarters and in each of EPA's ten (10) Regional Offices. The data contained includes both design (e.g., size of unit, heat capacity, volume of chambers, type of design, etc.) and performance (design temperatures, measured destruction, performance parameters, etc.) information. The program is a useful tool in comparing new permit application cases to existing approved and working designs and in helping to make both research and permitting decisions by drawing upon past experience in the field.

Expected Start Date: FY 87

Expected Completion Date:

	<u>FY 85</u>	<u>FY 86</u>	<u>FY 87</u>	<u>FY 88</u>
EPA Resources Required:	0	0	0	\$225K
DOE Resources Required:	0	0	\$225K	\$225K

EPA Project Coordinator:

Clyde J. Dial, HWERL (513/569-7528)

C.C. Lee, HWERL (513/569-7520)

DOE Project Coordinator:

Cathy Fore, ORNL, (615/574-7299)

Project Location: EPA, HWERL, Cincinnati, Ohio

DOD*/DOE Hazardous Waste Cooperative Effort

Title: Hazard Assessment Rating Methodology II (HARM II)

Project Objective(s): To refine Installation Restoration Program (IRP) site ratings, after completion of IRP Phase II, using site-specific data. To enable prioritization of IRP sites requiring Phase IV remediation.

Description: The Surgeon General of the U.S. Air Force has directed that the existing Air Force IRP prioritization system be upgraded to reflect actual site conditions. The first phase of the project is to refine hydrogeological and health/ecological toxicology factors and improve the pathway, receptor and toxicity scoring system of the HARM I. The second phase is to prepare a draft users manual, validate the model via on-site collaborative testing and prepare a final users manual.

Expected Start Date: 04/84

Expected Completion Date: 10/86

	<u>FY 85</u>	<u>FY 86</u>	<u>FY 87</u>
DOE Resources Required:	(Contract Administration only)		
DOO Resources Required:	\$17K	\$250K	\$ 38K

DOE Project Coordinator:

Dr. Lawrence Barnhouse, ORNL, (615/574-7393)

Dr. Ellen Smith, ORNL, (615/574-7396)

D.W. Burton, ORNL, (615/574-3767)

DOO Project Coordinator:

Lt. Col. Robert Lombard, USAF SGO, (202/767-1736)

Dr. Dee Ann Sanders, USAF OEHL, (512/536-2158)

Project Location: Oak Ridge National Laboratory

DOD*/EPA/DOE Hazardous Waste Cooperative Effort

Title: Multimedia Pollution Control for Metal-Finishing Operations

Project Objective(s): Develop a database of pollution control options in metal-finishing operations, determine process emissions factors, characterize toxic air emissions from chrome plating operations, develop an approach to optimizing the multimedia impacts of those operations and technologies, and apply the approach to an Army metal-finishing facility.

Description: A database of information on metal-finishing processes and their associated pollution problems will be assembled along with current and potential control methods. The emphasis will be on how materials are manipulated and what performance limits exist. The project will develop data which will define toxic pollutant emission parameters from applicable operations such as spray painting, chrome plating, degreasing and paint stripping. An environmental audit will be conducted on the metal-finishing processes at Sacramento Army Depot including current technology, mass flow balance cost estimates, and regulatory requirements. Process emissions testing will be conducted at Sacramento Army Depot and McClellan AFB, Air Logistics Center, to assess the degree of the toxic chromium emissions problem from typical chrome plating operations. An analysis of the existing environmental control technologies plus projections of multimedia emissions with various control options will be carried out. The control option review will result in a state-of-the-art summary of alternative control options and their multimedia impacts. Recommendations for further activities will be reported and possible modeling methods will be suggested.

Expected Start Date: April 1986

Expected Completion Date: September 1987

	<u>FY 86</u>	<u>FY 87</u>	<u>FY 88</u>
EPA Resources Required:	0	100K	50K
DOD Resources Required:	154K	300K	50K
DOE Resources Required:			

DOD Project Coordinator:

Robert Bartell, USATHAMA (301/671-2054)
David Renard, USATHAMA (301/671-2054)
Capt. Ray Peters, HQ AFESC/RDVW (904/283-4628)
Roger Gibbs, NSWC Dahlgren
Nick Olah, NCEL (805/982-4191)

EPA Project Coordinator:

Roger Wilmoth, WERL (513/569-7509)
John Burckle, WERL (513/569-7506)
Charles Darwin, AEERL (919/541-7633)

DOE Project Coordinator:

H.F. Bauman, DOE-Oak Ridge, (615/574-2037)

Demonstration Project Location: Acurex Corp., Mt. View, CA; Sacramento Army Depot, and McClellan AFB, Sacramento, CA

00D*/EPA/DOE Hazardous Waste Cooperative Effort

Title: The EM4 Systems Approach to 00D Installation Restoration, Environmental Monitoring, Mapping, Modeling and Management

Project Objective(s): The objective of this project is to develop a comprehensive approach to installation restoration data management by incorporating the latest advancements in environmental monitoring, mapping, modeling and data management.

Description: The EM4 systems approach provides a means for handling the staggering number of physical, biological, and socio-economical, environmental considerations within the IR decision-making process. Environmental monitoring methods such as, soil-gas sampling; remote environmental data collection; ground penetrating radar; and other remote sensing and field measurement techniques will be explored. Various computer mapping, geophysical modeling, and geographic information systems (GIS) will be evaluated for their use in subsurface plume analysis; dispersion modeling; trajectory prediction; cost-benefit analysis; and remedial action optimization. Long-term data management issues will be addressed by evaluation of specific technologies such as disposal, chemical treatment, and biodegradation processes. Short-term data management issues will be addressed through development of an automated spill contingency planning and updating system. Data for these complex issues will be managed using knowledge/computer-based information systems.

Expected Start Date: 10/01/86
Expected Completion Date: 09/30/90

	<u>FY 86</u>	<u>FY 87</u>	<u>FY 88</u>	<u>FY 89</u>	<u>FY 90</u>
00D Resources Required:		360K			
EPA Resources Required:					
DOE Resources Required:					

00D Project Coordinator:

Mary Lingua, NCEL (805/982-3310)
Marge Elliott, NCEL (805/982-3115)
Maj. Tom Walker, AFESC (904/293-4629)
Robert Bartell, USATHAMA (301/671-2054)

EPA Project Coordinator:

Ann Pitchford, EPA EMSL-LV (702/798-2366)

DOE Project Coordinator:

D.W. Burton, DOE-Oak Ridge (615/574-3767)

Demonstration Project Location: MCAS, Iwakuni, Japan; NAS Whidbey Island, WA; Fort Lewis, WA; MCAS Kaneohe Bay, HI

DOD/EPA* Hazardous Waste Cooperative Effort

Title: Development of Software for Genetic Toxicology Data Management

Project Objective(s): To determine and standardize procedures for analyzing data from short-term mutagenicity assays and to develop software packages to make these standardized procedures generally available for microcomputer users.

Description: Standardized data management and analysis procedures will be developed through consensus workshops comprised of nationally recognized experts in statistics and mutagenicity testing. These standardized procedures will be computerized for use on IBM compatible microcomputers. This data management and analysis system will allow more consistent collection and interpretation of genetic toxicology data and improve risk determination and decision making. Initial activities will concentrate on the Ames Salmonella mutagenicity assay and will be expanded to other assays as resources permit.

Expected Start Date: 09/85
Expected Completion Date: 08/88

	<u>FY 85/86</u>	<u>FY 87</u>	<u>FY 88+</u>
DOD Resources Required:	50K	50K	50K
EPA Resources Required:	75K	75K	75K

DOD Project Coordinator:
Jesse J. Barkley/Mary Henry, USAMBROL, (301/663-2014)

EPA Project Coordinator:
Llewellyn R. Williams, EPA/EMSL-LV, (702/798-2138) or (FTS/545-2138)
J. Gareth Pearson, EPA/EMSL-LV, (702/798-2383) or (FTS/545-2383)

Demonstration Project Location: Research Triangle Park, NC - Integrated Laboratory Systems

Site Assessment
(26) EC² System for
Wetlands

DOD/EPA* Hazardous Waste Cooperative Effort

Title: Pollutant Evaluation, Containment, and Control (EC²) System for
Wetlands

Project Objective(s): Design, develop, and transfer to responsible DOD site management personnel a complete hardware and software data management system for Evaluation, Containment, and Control (EC²) of synthetic organic chemicals in wetland hazardous waste sites. Each site will receive a full hydrogeological transport characterization, a scan of the potential toxicants present, emplacement of climatological and hydrochemical monitoring equipment, and installation of EC² software systems developed from ongoing EPA research in Data Base Management Systems and chemical risk management Decision Support Systems. These systems will give site management officers the ability to continually monitor and predict the transport, fate, and potential effects of synthetic toxicants in response to subsequent climatological events.

Project Description: Approximately five sites per year will be nominated by DOD for implementation, with acceptance contingent upon evaluation for suitability by the EPA project team. At each site, EPA will recommend placement of suitable instrumentation and provide DOD personnel with both off-site (at a demonstration project conducted with the USGS) and on-site training so that DOD can assume full site management responsibilities; EPA will continue to be available in an advisory role for the full duration of the project. During the course of this project, EPA and cooperating investigators will be continuing to develop data management software, the scientific basis for risk evaluation of synthetic chemicals, and demonstration sites for evaluation of alternative monitoring systems and EC² software. All DOD sites will be brought to an equivalent state of competence by the end of the project period, including the provision of detailed final quality assurance guidelines, data management procedures, and software user's guides.

Expected Start Date: Oct 86

Expected Completion Date: Sep 91

	FY 87	FY 88	FY 89	FY 90	FY 91
DOD Resources Required:	\$750K	\$750K	\$750K	\$750K	\$750K
EPA Resources Required:	\$100K	\$100K	\$100K	\$100K	\$100K

EPA Project Coordinator:

Dr. Lawrence Burns, EPA/ERL-Athens, (404/546-3511, FTS/250-3511)

Dr. Harvey Holm, EPA/ERL-Athens, (404/546-3103, FTS/250-3103)

DOD Project Coordinator:

Dr. Robert Pierce, HQ DDA/COE, (202/272-0199)

Demonstration Project Location: T80

EPA*/DOD/DOE Hazardous Waste Cooperative Effort

Title: Federal Workshop on Hazardous Waste Management for Federal Facilities

Project Objective(s): To hold an initial workshop among key technical and management staff within EPA, DOD, NIH, and other Federal agencies to develop a consistent and appropriate approach to hazardous waste disposal within the Federal waste generator/disposal sector regarding RCRA and/or CERCLA and TSCA compliance.

Description: Under RCRA, CERCLA, and TSCA, Federal facilities including DOD generating and/or disposing of hazardous waste are subject to the same storage, handling, and disposal regulatory requirements as the private sector. This workshop responds to individual concerns expressed to EPA from a number of Federal installations that additional guidance and technical assistance may be needed to discuss regulatory requirements, determine whether generators fall within various categories, and to review permitting activities for standard or recommended waste management technologies which can be applied, etc.

Expected Start Date: A Workshop is scheduled for the Fall of 1986
Expected Completion Date: 12/86

	<u>FY 85</u>	<u>FY 86</u>	<u>FY 87</u>	<u>FY 88</u>
EPA Resources Required:	0	\$3.5K	0	0
DOD Resources Required:	0	\$7.0K	0	0
DOE Resources Required:	0	0	\$5K	

EPA Project Coordinator:

Clyde J. Dial, HWERL (513/569-7528)
C.C. Lee, HWERL (513/569-7520)
John Koutsandreas, OADEMA/ORD (202/382-5789)

DOD Project Coordinator:

Lt. Col. Robert Olfenbuttel, HQ AFESC/RDV (904/293-2097)

DOE Project Coordinator:

R.C. Steeman, DOE-Oak Ridge (615/576-0850)

Demonstration Project Location: EPA Headquarters and EPA-Cincinnati
The Workshop is to be held in the greater Washington, DC area.

DOD/EPA* Hazardous Waste Cooperative Effort

Title: Toxicological and Chemical Assessment of Hazardous Waste
Contaminants in Marine Sediments and Water

Project Objective(s): Develop, verify, and transfer to responsible Naval facilities personnel a documented protocol including toxicological and analytical methods to: (1) assess the extent of contamination in the marine environment; (2) determine the most appropriate remedial action for confirmed hazardous waste sites; and (3) evaluate the results of any corrective action program. The protocol will provide the Naval facilities site managers the ability to define, to predict, and to monitor the magnitude of environmental impacts as part of an Environmental Restoration Program. The protocol will emphasize real-time environmental measurements and assessment methodologies needed for the dynamic marine environment.

Project Description: The proposed project will be a joint effort between the Naval Ocean System Center and EPA/ORD personnel expanding upon existing experimental facilities. Specifically, the protocol will emphasize the following areas: (1) analytical methods suited for rapid field measurement of hazardous waste; (2) laboratory and field toxicological methods for determining the hazards of the possible numerous chemicals in a hazardous waste; (3) biological field methods for evaluating ecosystem response of the marine environment to hazardous waste; (4) field survey methodologies capable of mapping and characterizing the extent of hazardous waste in the marine environment; and (5) methods for predicting the transport, fate, and potential adverse effects of hazardous waste on marine environments. Workshops will be conducted jointly the Naval Ocean System Center and EPA/ORD personnel at various naval facilities on how to utilize the protocol.

Expected Start Date: Oct 86

Expected Completion Date: Sep 91

	<u>FY 87</u>	<u>FY 88</u>	<u>FY 89</u>	<u>FY 90</u>	<u>FY 91</u>
DOD Resources Required:	\$150K				
EPA Resources Required:	\$200K	\$200K	\$200K	\$200K	\$200K

EPA Project Coordinator:

Dr. Norbert Jaworski, EPA/ERL-Narragansett, (401/789-1071; FTS/938-5087)

Dr. Jack Gentile, EPA/ERL-Narragansett, (401/789-1071; FTS/938-5087)

DOD Project Coordinator:

Dr. S. Yamamoto, NOSC, San Diego (619/225-6340)

Dr. Peter Seligman, NOSC, San Diego (619/225-7697)

DOD*/EPA Hazardous Waste Cooperative Effort

Title: The Destruction/Detoxification of Chlorinated Dioxins in Contaminated Soils with APEG Reagents

Project Objective(s): To evaluate and identify at the laboratory level the most effective chemical methods/reagents for destruction, under ambient conditions, of chlorinated dioxins (TCDD's) as contaminants in soils. The most effective reagent(s) identified in the laboratory evaluation will be tested under field conditions. Alkali metal polyethylene glycol (APEG) reagents will be considered.

Description: TCDD concentrations in soil can be reduced under laboratory conditions from 2000 ppb to less than 1 ppb. The technique involves chemical dechlorination of the chlorinated dioxins to water soluble, non-toxic products using low cost reagents. One reagent for chlorinated dioxin destruction, for example, is prepared from polyethylene glycol, potassium hydroxide and dimethylsulfoxide.

Both an on-site slurry process and an in-situ process are under development for different types of contaminated sites. In the slurry process, the contaminated soil is excavated, placed in an on-site reactor and processed for 1-2 hours at elevated temperatures to decompose the dioxins. In the in-situ process, the soil is treated in place by adding reagent directly to the soil followed by heating of the soil using radio frequency or solar techniques for 2-4 days. The EPA and USAF (Tyndall Air Force Base, Florida) are co-funding this research effort.

Accomplishments To Date: The Air Force has received a draft RCRA RD&D permit to test thermal and chemical treatments of dioxin-contaminated soils at the Naval Construction Battalion Center, Gulfport MS. Pilot-scale tests of APEG technology, both slurry and in situ processes, will be conducted starting in Oct 86.

Expected Start Date: 9/84**
Expected Completion Date: 9/87

	<u>FY 85</u>	<u>FY 86</u>	<u>FY 87</u>	<u>FY 88*</u>
EPA Resources Required:		305	230	UNK
DOD Resources Required:		275	**	**

EPA Project Coordinator:
Clyde J. Dial, HWERL (513-569-7528)/Charles J. Rogers (513-569-7757)
Paul des Rosiers, OEST, (202/382-2722)

DOD Project Coordinator:
Capt. Ed Heyse, USAF; AFESC/IRQVW, (904-783-4628)

Project Location: Buffalo, NY and the Naval Construction Battalion Center, Gulfport, MS

** Demonstration effort is dependent upon success of field verification studies.

High Hazard Waste
(2) PCB Microbial Decontamination

DOO*/EPA Hazardous Waste Cooperative Effort

Title: PCB Decontamination at PWC, Guam

Project Objective(s): To decontaminate PCB in soil using alternative technology under controlled field conditions. If successful, the cost-effective process will be applied to other sites.

Description: The polychlorinated biphenyl (PCB) contamination was originated from long-term spillage (from 1945 through 1970's) at a transformer maintenance/services shop in Building 3009 at PWC Guam. The PCB-containing waste oil was transported by storm water from the spill site to a combination storm drainage ditch. It is estimated as much as 3,500 cubic yards of soil may have been contaminated by the PCB's. Cleanup of PCB-contaminated soil is mandatory for compliance with the law. The goal of this project is to achieve cleanup to required levels in a cost-effective manner using technology other than present methods, such as expensive incineration method and/or land disposal.

EPA Cincinnati (HWERL) is developing a chemical dechlorination method using the reagent polyethylene-glycol and potassium hydroxide (KPEG) in an elevated temperature environment. Laboratory treatability studies using soil samples from Guam are promising. Detox in Houston, Texas is conducting a biodegradation experiment. These alternative technologies are candidates for field demonstration based on their technical and economical feasibilities. An RDT&E effort for the alternative technology will be initiated after the success in laboratory treatability studies is achieved. Currently, the KPEG reactions have been confirmed in the lab at very small scale and a 60-gallon reactor will be applied to the Guam soils during the Fall of 1986.

Start Date: 1 November 1985

Expected Completion Date: 30 September 1986

	<u>FY 86</u>	<u>FY 87</u>	<u>FY 88</u>
EPA Resources Required:	To be determined		
DOO Resources Required:	\$200K	780	780

EPA Project Coordinator:

Clyde Dial, EPA/HWERL, (513/569-7529)

Dr. Charles Rogers, EPA/HWERL, (513/569-7757)

Paul des Rosiers, CEET, (202/392-2722)

DOO Project Coordinator:

Dave Olson, NFEC (202) 325-8176

Dr. D.S. Chan, NCEL (805) 982-4191.

Demonstration Project Location: PWC Guam.

High Hazard Wastes
(3) PCB Electrochemical Decontamination

DOD*/EPA Hazardous Waste Cooperative Effort

Title: Evaluation of Electrochemical PCB Decontamination Process

Project Objective(s): Evaluate an Environmental Research and Technology, Inc. (ERT) electrochemical process for on-site decontamination of askarel (PCB) or PCB contaminated transformers. The transformers can then be refilled with a substitute dielectric Fluid.

Description: We propose to test and evaluate the ERT Process on transformers at a Navy site in the San Diego area. ERT will need an EPA permit to conduct the test. During the process, PCB fluid is fed from the transformer to an electrochemical cell where PCBs and other chlorinated organic contaminants found in dielectric fluid (e.g., trichloroethylene and chlorobenzenes) are dechlorinated. End products are a substituted biphenyl organic product with fuel oil characteristics and an inorganic chloride brine. The biphenyl product can be burned and the inorganic brine disposed of as a hazardous waste. Transformers can be decontaminated on-line or off-line. There are a number of parameters that can be varied in the system operation. We plan to test various operating modes and determine the most effective method(s) to perform the process. ERT believes the process will be substantially less costly than transformer replacement; therefore, we will also evaluate the cost effectiveness of the process. The Navy Civil Engineering Laboratory and EPA's HWERL will evaluate the results.

Start Date: September 1985

Expected Completion Date: September 1986

	<u>FY 85</u>	<u>FY 86</u>	<u>FY 87</u>	<u>FY 88+</u>
EPA Resources Required:	None			
DOD Resources Required:		\$300K	\$ 35K	

EPA Project Coordinator:

Brian Westfall (513/569-7755)
Clyde Dial, HWERL (513/569-7529)
Paul des Rosiers, OEET, (202/382-2722)

DOD Project Coordinator:

Mary Lingua, NCCL, (805/962-3310)

Demonstration Project Location: San Diego, California (Navy Site to be determined)

DOE*/EPA Hazardous Waste Cooperative Effort

Title: Hazardous Waste Incineration

Project Objective(s): To document experience with the Los Alamos radioactive and hazardous waste incinerator, and to design and test a transportable, self-contained hazardous waste incinerator. The first purpose of this task is to document and make available to incinerator operators and designers within DOE and in general, the results of extensive experience in processing various forms of hazardous waste in the Los Alamos hazardous waste incinerator. A second objective is to design, construct and test a self-contained transportable incineration system that would serve the needs of several DOE installations without requiring the transport of hazardous waste.

Description: The recent experience in the incineration of hazardous waste forms will be documented in a third volume as an addendum to the two volumes which cover the incineration of combustible TRU waste. Modification required to receive, store, transport, and incinerate hazardous liquids, slurries, and gases will be described as well as modifications to the offgas treatment system and the system controls. The documentation will include drawings and other materials that will be useful to designers and operators of incinerators at other installations.

The experience gained in the above program will be applied to the conceptual design of a transportable hazardous waste incinerator. An economic evaluation will be made to compare the use of the transportable system to one or several fixed incinerators at major DOE installations, with varying degrees of transport of hazardous waste required. If the results of the evaluation are favorable, a transportable incinerator will be constructed and tested.

Expected Start Date: FY 1986

Expected Completion Date: FY 1989

	<u>FY 86</u>	<u>FY 87</u>	<u>FY 88</u>	<u>FY 89+</u>
EPA Resources Required:		\$300K	\$300K	\$200K
DOE Resources Required:	\$150K	\$250K	\$300K	\$150K

DOE Project Coordinator:

J.C. Parker, DOE-Oak Ridge (615/576-1591)

EPA Project Coordinator:

Frank Freestone, HWERL (201/321-6632)

Wade Ponder, AEERL (919/541-2813)

Demonstration Project Location: Los Alamos National Laboratory

DOE*/DOD/EPA Hazardous Waste Cooperative Effort

Title: Process Microwave Heating

Project Objective(s): To investigate the use of microwave heating to promote detoxification reactions in waste streams containing metals and/or organic and inorganic halides and nitrates. The purpose is to evaluate the feasibility and economics of microwave-assisted chemical processes for detoxification and volume reduction of polar waste streams.

Description: Several waste streams or simulated waste streams will be tested on a laboratory scale with metal removal processes, using a 600 W microwave heater. A bench scale variable frequency microwave reactor system of 5-10 KW will be designed and procured. Selected waste streams will be processed using this system. A preliminary economic evaluation will be carried out for the most promising processes to estimate the cost of microwave processing as compared to alternative waste treatment methods.

Expected Start Date: FY 1986
Expected Completion Date: FY 1989

	<u>FY 86</u>	<u>FY 87</u>	<u>FY 88</u>	<u>FY 89+</u>
EPA Resources Required:		\$100K	\$100K	\$100K
DOE Resources Required:	\$160K	\$ 60K	\$ 50K	\$ 50K

DOE Project Coordinator:
J.C. Parker, DOE-Oak Ridge (615/576-1591)

EPA Project Coordinator:
Ron Hill, HWERL (513/569-7861)

DOD Project Coordinator:
Wayne Sisk, USATHAMA, (301/671-2054)
Doug Downey, HQ AFESC/RDV, (904/283-2942)

Demonstration Project Location: Argonne National Laboratory

EPA*/DOD/DOE Hazardous Waste Cooperative Effort

Title: High Efficiency, Low NO_x Burner/Incinerator for Hazardous Waste

Project Objective(s): To support the design, fabrication and field evaluation of an alternative waste treatment system that consists of a burner/incinerator that has the dual capability of very high waste destruction efficiencies and very low NO_x emissions for nitrated wastes. This high performance burner system would provide a new alternative treatment process for onsite waste disposal.

Description: Current agency policy (RCRA) is to minimize hazardous waste landfilling. Thermal destruction is the most effective alternative for combustible wastes and one which also provides resource recovery and on-site treatment. When the wastes are nitrated, thermal destruction will generate high emissions of oxides of nitrogen (NO_x) unless control measures are used. These emissions may conflict with Clean Air Act (CAA) provisions as well as with regional, state and local permitting requirements. Conventional technology is inadequate for simultaneous high waste destruction efficiency and low NO_x emissions. The proposed burner/incinerator has a unique capability for very high waste destruction efficiencies while suppressing oxides of nitrogen to levels below conventional combustors with conventional fuels. Prior work by EPA in the 1980-1985 period has brought the technology to the field prototype stage of development; moderate additional support is proposed to carry out the field evaluation and attain commercialization status for use by EPA and other government agencies for on-site waste minimization with recycle/reuse, as well as by the private sector. This burner also has potential for use in Germany if our military bases are required to meet stringent, new low NO_x standards for acid deposition control.

Recommended Approach: EPA will coordinate with DOD to perform the design, installation, and field evaluation of the burner/incinerator for cofiring nitrated waste with heavy oil at a candidate military site with a package boiler in the 100M to 200M Btu/hr capacity range and with the accessibility for waste cofiring.

Start Date: May 1985

Expected Completion Date: March 1989

	<u>FY 85/FY 86</u>	<u>FY 87</u>	<u>FY 88</u>	<u>FY 89</u>
EPA Resources Required:	\$400K			
DOD Resources Required:		\$350K	\$500K	\$350K

EPA Project Coordinator:

Joseph A. McSorley AEERL (919/541-2920) (FTS/629-2920)

DOE Project Coordinator:

J.C. Parker, DOE-Oak Ridge (615/576-1591)

DOD Project Coordinator:

Dr. Fu, NCEL, (805/982-4675)

Demonstration Project Location: To be selected, preferably a military base with nitrated wastes.

NOTE: The funding for FY 87, 88, 89 of \$1200K will provide for the completion of the proposed field evaluation and burner demonstration.

Alternative Technologies
(4) Incineration

DOU/EPA*/DOE Hazardous Waste Cooperative Effort

Title: Destruction of Plastic Media Blasting (PMB) Residues

Project Objective(s): Demonstrate and evaluate a method of efficiency and safely disposing of plastic media blasting residues from paint stripping operations.

Description: The WERL-Cincinnati, AEERL/RTP and the U.S. Army (USATHAMA) successfully demonstrated the efficiency and safety of using PMB for removing paint from military structures and vehicles. The demonstration proved that a reduction of greater than 90% of the solid/liquid waste and 100% of the toxic air emissions could be eliminated by using PMB. Mil. Spec. paint strippers which can be replaced by PMB contain up to 70% methylene chloride and lesser quantities of additional solvents. Most of the solvents are eventually released to the atmosphere. The remaining 10% solid/liquid waste, however, must be disposed of in an environmentally safe manner. Thus, PMB promises to eliminate Toxic Air Emissions, however only a portion of the solid/liquid waste discharges from paint stripping operation. This program will provide the final link to make PMB a total environmentally acceptable process by defining a method to safely dispose of the remaining waste products. The first method to be investigated will be the use of incineration.

Expected Start Date: 09/86
Expected Completion Date: 10/87

	<u>FY 87</u>	<u>FY 88</u>	<u>FY 89</u>	<u>FY 90</u>
EPA Resources Required:	-	-	-	-
DOO Resources Required:	\$100K	-	-	-

EPA Project Coordinator:
Charles Darwin, EPA/AEERL, (919/541-7633) (FTS/629-7633)

DOO Project Coordinator:
Robert Bartell, USATHAMA (301/671-2054)
Capt. Ray Peters, HQ AFESC/ROV (904/283-4628)
Jerry Zimmerle, NCEL (305/982-4191)

DOE Project Coordinator:
J.C. Parker, DOE-Oak Ridge (615/576-1591)

Demonstration Project Location: Variable

Alternative Technologies
(5) Co-Firing Hazardous Waste

EPA/DOO/DOE Hazardous Waste Cooperative Effort

Title: Co-Firing Hazardous Waste in U.S. Navy Boilers

Project Objective(s): To provide technical assistance to the Navy in their planning of waste disposal in boilers based on EPA's ongoing research experience, engineering analysis methodology, and proposed regulatory developments.

Description: The EPA and OGA/Department of the Navy (Port Hueneme, California) have entered into an Interagency Agreement (IAG) to facilitate formal EPA assistance from HWERL's Thermal Destruction Branch to Navy programs to increase their use of industrial-type boilers for thermal destruction/disposal of combustible hazardous waste in boilers at various Naval installations in the U.S. The Navy will provide contractual support to consultant firms utilizing EPA's guidance to implement environmental and performance evaluations. EPA personnel are provided a travel budget for technical meetings and on-site observations, etc. under the IAG. EPA and Navy concerns to be addressed include the following:

- o Incinerability of various Navy waste streams
- o Engineering Analysis predictions of performance vs. boiler designs
- o Performing of necessary stack and environmental testing
- o Continuous monitoring techniques
- o Heavy or toxic metals, PICs, DRE, etc.

Expected Start Date: 06/86

Expected Completion Date: 08/87 (w/provisions for extensions)

	<u>FY 85</u>	<u>FY 86</u>	<u>FY 87</u>	<u>FY 88</u>
<u>EPA Resources Required:</u>	0	0	0	0
<u>DOO Resources Required:</u>	\$100K	\$200K	\$200K	\$200K

EPA Project Coordinator:
C.C. Lee, HWERL (513/569-7520)

DOO Project Coordinator:
Dennis Knudsen, NSWC, (703/663-8621)

DOE Project Coordinator:
D.W. Burton, DOE-Jak Ridge (615/574-3767)

Demonstration Project Location: Oahlgren, Virginia and various other locations

DOD*/EPA/DOE Hazardous Waste Cooperative Effort

Title: Assessment of Infrared Incineration Process for Destruction of
Hazardous Waste Contaminated Soils

Project Objective(s): The objective of this project is to assess the practicality and feasibility of using a mobile hazardous waste destruction unit on-site to cleanup contaminated soils at remote activities.

Description: A cost effective on-site incineration method is needed for destruction of contaminated soil from past hazardous waste sites and spills at remote activities, where the cost of transporting this waste to the Continental United States (CONUS) is prohibitive. The need is especially acute in areas where disposal facilities are lacking and have not been planned for by commercial companies.

Expected Start Date: 10/01/86
Expected Completion Date: 09/30/89

	<u>FY 86</u>	<u>FY 87</u>	<u>FY 88</u>	<u>FY 89</u>
DOD Resources Required:		40K		
EPA Resources Required:				

DOD Project Coordinator:
Mary Lingua, NCEL (805/982-3110)
Bill Powers, NCEL (805/982-5465)

EPA Project Coordinator:
Dr. C.C. Lee, HWERL (516/569-7520)

DOE Project Coordinator:
J.C. Parker, DOE-Oak Ridge (615/576-1591)

Demonstration Project Location: Pacific Division Activities, Pearl Harbor, HI and Guam

Alternative Technologies
(7) Heavy Metal Extraction

OOO/EPA Hazardous Waste Cooperative Effort

Title: Heavy Metal Extraction Technology for Use in Treatment of Contaminated Soils and Sludges and Metal Finishing Wastes

Project Objective(s): Develop technology for treatment of heavy metal contaminated soils, sludges, and metal finishing wastes as an alternative to landfill disposal.

Description:

- a. Review existing technologies for the extraction of heavy metals from sludges/soils. Generation of new concepts for same.
- b. Evaluate concepts with respect to a given set of performance criteria. Select most promising concepts.
- c. Perform laboratory work to confirm feasibility of promising heavy metal extraction technologies in adherence to performance criteria.
- d. Develop a plan for field demonstration of selected heavy metal extraction technology.
- e. Field demonstration of heavy metal extraction technology.

Accomplishments:

- a. Coordinated Army effort with EPA, 28 Feb 86.
- b. Initiated Army's Conceptual Design Contract, 15 Mar 86.
- c. Roy Weston has contracted with OOO for the review and evaluation steps. EPA is waiting until Weston makes a recommendation, at which time appropriate comments will be provided.

Plans:

- a. Select specific technology for field testing, 29 Feb 87.
- b. Complete Lab/Bench studies to support specific selection, 31 Dec 87.
- c. Initiate field demonstration, 1 May 88.
- d. Technical report, 1 Oct 88.

Expected Start Date: Dec 1985

Expected Completion Date: Sept 1988

	FY 85	FY 86	FY 87	FY 88+
EPA Resources Required:	0	0	150K**	250K**
OOO Resources Required:	0	124K	125K	

EPA Project Coordinator:

Gary Howell, EPA/HWERL, (513/569-7756)

Clyde Dial, EPA/HWERL, (513/569-7528)

OOO Project Coordinator:

Erik Hangeland, USATHAMA, (301/671-2054)

Demonstration Project Location: Candidate Sites - Letterkenny Army Depot, PA; Twin Cities Army Ammunition Plant, MN; Anniston Army Depot, AL.

** Funds are currently not available with EPA's budget.

Alternative Technologies
(8) Supercritical Water Oxidation

DOE*/EPA Hazardous Waste Cooperative Effort

Title: Supercritical Water Oxidation

Project Objective(s): To investigate the oxidation of hazardous organics in supercritical water, to determine reaction kinetics and to understand the mechanisms and the reactive species involved. The purpose is to destroy hazardous organic compounds in water.

Description: The chemical reactions occurring during the oxidation of organics in supercritical water will be investigated. A laboratory high pressure autoclave will be designed, constructed, and tested collaboration with MIT. The kinetics of oxidation for selected hazardous and model organic compounds will be studied using gas chromatography and other methods, and the effect of oxygen versus air will be explored. Reaction mechanisms will be studied and reactive species identified. Methods will be explored for reducing the threshold concentration of organic required for a self-sustaining reaction. The economics of the process will be estimated, and the potential for full scale processing determined.

Expected Start Date: FY 1986

Expected Completion Date: FY 1989

	<u>FY 86</u>	<u>FY 87</u>	<u>FY 88</u>	<u>FY 89+</u>
EPA Resources Required:		\$175K**	\$300K**	\$200K**
DOE Resources Required:	\$160K	\$100K	\$150K	\$150K

DOE Project Coordinator:

D.W. Burton, DOE-Oak Ridge (615/574-3767)

EPA Project Coordinator:

Ron Hill, HWERL, (513/569-7861)

Demonstration Project Location: Los Alamos National Laboratory

** These amounts do not necessarily represent committed funding from EPA.

DOE*/DOD/EPA Hazardous Waste Cooperative Effort

Title: Paramagnetic Separation of Waste

Project Objective(s): To investigate the magnetic separation of paramagnetic components from hazardous waste mixtures or suspensions. The goal of this task is to separate hazardous and/or reclaimable components of sludges, slurries, or granular mixtures from a waste stream, through differences in their magnetic susceptibility. The feasibility of separating heavy metals such as Hg, Pb, and U from selected DOE waste streams will be investigated.

Description: Samples of candidate waste streams will be obtained and tested in a bench scale Frantz open gradient magnetic separator (OGMS). This technique can separate materials that are diamagnetic (repulsed by a magnet) as well as paramagnetic. These tests will indicate whether the waste stream is separable by OGMS or by high gradient magnetic separation (HGMS), in which paramagnetic constituents are collected on a magnetic matrix. Selected waste streams will be processed by OGMS or HGMS to obtain data needed for the design of full scale systems. The economics of magnetic separation will be determined and used to evaluate the systems as compared with other methods of treatment or disposal.

Expected Start Date: FY 1986

Expected Completion Date: FY 1989

	<u>FY 86</u>	<u>FY 87</u>	<u>FY 88</u>	<u>FY 89+</u>
EPA/DOD Resources Required:		\$100K**	\$100K**	\$100K**
DOE Resources Required:	\$140K	\$150K	\$150K	\$150K

DOE Project Coordinator:

D.W. Burton, DOE-Oak Ridge (615/574-3767)

EPA Project Coordinator:

Clyde Dial, HWERL, (513/684-7528)

DOD Project Coordinator:

Dr. Walter Zachritz, HQ AFESC/ROV (904/293-4628)

Demonstration Project Location: Oak Ridge National Laboratory

** Indicates funding requested by DOE, not funding committed by DOD or EPA.

DOE*/DOO/EPA Hazardous Waste Cooperative Effort

Title: Waste Acid Detoxification and Reclamation

Project Objective(s): To develop and demonstrate processes and process equipment that reduce the volume, quantity, and toxicity of metal-bearing waste acids. The goal is to (1) remove principal metal ions such as Zr, Cu, and U from waste acid without reducing acid concentration, (2) recycle the resulting rejuvenated acid, (3) reclaim anions such as NO_3^- and F^- as acid from wastes by distillation with H_2SO_4 , and (4) produce a residual sulfate waste with low concentrations of nitrates, heavy metals, and radionuclides.

Description: Methods for pretreating acid streams, including precipitation, electrowinning, and membrane technology, will be evaluated based on previous laboratory work. Selected technologies will be demonstrated on a large bench scale (i.e., 95 liter vessels) with actual waste acids to obtain engineering scaleup data. Bench-scale system will include reaction tank and filter press for precipitation as well as a distillation test loop for equilibrium and material studies. This equipment will be used in FY 1986 and FY 1987. Based on information obtained from tests, an economic evaluation will be completed to determine the feasibility of pilot plant construction and testing starting in the third fiscal year.

Expected Start Date: FY 1986

Expected Completion Date: FY 1990

	<u>FY 86</u>	<u>FY 87</u>	<u>FY 88</u>	<u>FY 89+</u>
EPA/DOO Resources Required:		\$300K**	\$250K**	\$240K**
DOE Resources Required:	\$170K	\$250K	\$175K	\$200K

DOE Project Coordinator:

H.F. Bauman, DOE-Oak Ridge (615/574-2037)

EPA Project Coordinator:

Clyde Dial, HWERL, (513/684-7528)

Alden Christianson, WERL (513/569-7406)

DOO Project Coordinator:

Dennis Wynne, USATNAMA, (301/671-2466)

Capt. Ray Peters, HQ AFESC/ROV, (904/283-4628)

Jerry Zimmerle, NCEL (805/982-4191)

Demonstration Project Location: Pacific Northwest Laboratory

** Indicates funding requested by DOE, not funding committed by DOO or EPA.

DOE*/DOD/EPA Hazardous Waste Cooperative Effort

Title: By-Product Expert System

Project Objective(s): To modify an existing Expert System (using "artificial intelligence") to identify potentially beneficial products that can be made from specified organic wastes, and to plan and evaluate the conversion methods required. The goal is to elucidate pathways for converting hazardous waste compounds into products of greater utility and economic benefit and/or lower toxicity.

Description: An expert system exists for finding synthesis pathways for a specified compound starting with commercially available materials and using known synthesis methods. The chemical knowledge base of this system will be expanded, and the "chemical direction" of the program reversed, so that starting with a specified waste compound, the program will search out pathways to possible products of greater value.

Several important user interfaces will be provided. One will be the provision to use a structural diagram to describe the compound to be used as the starting material. Another will provide a running account of the synthesis program's progress using structural diagrams of intermediates and reagents. A third will describe the chemical pathways discovered, including instructions for carrying out the synthesis in the laboratory. A fourth will be a feedback path from the user to the knowledge base, to permit the user to tailor the program to the requirements of new applications. The practical implementation of these user support features will require the speed and power of a LISP machine.

Expected Start Date: FY 1986

Expected Completion Date: FY 1989

	<u>FY 86</u>	<u>FY 87</u>	<u>FY 88</u>	<u>FY 89+</u>
EPA/DOD Resources Required:		\$150K**	\$150K**	\$100K**
DOE Resources Required:	\$200K	\$200K	\$200K	\$150K

DOE Project Coordinator:

D.W. Burton, DOE-Oak Ridge (615/574-3767)

EPA Project Coordinator:

Alden Christianson, WERL (513/569-7406)

DOD Project Coordinator:

Bob Riggins, CERL (800/872-2375)

Capt. Ray Peters, HQ AFESC/ROV (904/293-4628)

Demonstration Project Location: Oak Ridge National Laboratory

** Indicates funding requested by DOE, not funding committed by DOD or EPA.

DOE*/DOO/EPA Hazardous Waste Cooperative Effort

Title: Process Material Substitution

Project Objective(s): To examine current processes in which the substitution of one or more input materials would reduce or eliminate the generation of a hazardous waste. The goal of this project is to identify process materials which lead to or become hazardous waste streams, and to obtain the data needed to justify substituting other, non-hazardous materials, without significantly changing the overall process.

Description: Process waste streams, beginning with DOE's Idaho Falls facilities and proceeding to other installations, will be evaluated to determine possible areas of material substitution. The DOE HAZWRAP Waste Information Network data bases will be used as much as possible. A literature search will be conducted to assess the potential for substituting non-hazardous materials for the hazardous materials identified. Potential substitutions will be evaluated to select those that appear promising, and to determine which of those could be implemented immediately and those that would require further study.

Potential substitutions will be discussed with the engineering departments responsible for the process involved. Preliminary process designs and cost estimates will be prepared. Laboratory studies will be planned and carried out as required. A report with recommendations will be prepared for each substitution that appears feasible and cost effective.

Expected Start Date: FY 1986

Expected Completion Date: FY 1989

	<u>FY 86</u>	<u>FY 87</u>	<u>FY 88</u>	<u>FY 89+</u>
EPA/DOO Resources Required:		\$ 50K**	\$ 50K**	\$ 50K**
DOE Resources Required:	\$140K	\$200K	\$100K	\$100K

DOE Project Coordinator:

H.F. Sauman, DOE-Jak Ridge (615/574-2037)

EPA Project Coordinator:

Alden Christianson, WERL (513/569-7408)

DOO Project Coordinator:

Bob Riggins, CERL (800/872-2375)

Capt. Ray Peters, HQ AFESC/RDV (904/283-4628)

Mike Roberts, NCEL, (804/982-4193)

Demonstration Project Location: EG&G Idaho

** Indicates funding requested by DOE, not funding committed by DOO or EPA.

UST
(1) Leak Detection Methods

OOD/EPA* Hazardous Waste Cooperative Effort

Title: Leaking Underground Storage Tanks (UST) - Leak Detection and Testing Methods

Project Objective(s): Evaluate precision and accuracy of commercial methods; identify needs, define approach to solutions; develop technology or alternative methods.

Description: In support of the 1984 HSWA Subtitle I requirements, the EPA has embarked on a program to evaluate commercially available leak detection and testing methods for underground storage tanks in the 8,000 gallon size range containing gasoline and motor fuels. OOD has recognized the need to evaluate the applicability of such methods to do a variety of sizes of underground storage tanks (primarily larger) for a number of petroleum products. Joint process reviews - technical and program, - and exchanges of information will be accomplished via project coordinators identified below.

Accomplishments to Date: EPA's test apparatus is due to be completed in June 1986 and will be installed. EPA expects to spend \$500K in the next two years on this project.

Expected Start Date: FY 86
Expected Completion Date: FY 88

	<u>FY 85</u>	<u>FY 86</u>	<u>FY 87</u>	<u>FY 88+</u>
EPA Resources Required:		\$500K	\$500K	\$500K
OOD Resources Required:			Unk	

EPA Project Coordinator:
Richard Field, EPA/HWERL, (201/321-6674)
Ron Hill, EPA/HWERL, (513/569-7861)

OOD Project Coordinator:
L. Peter Joice, OSD, (202/653-1273)

Demonstration Project Location: EPA, Edison, NJ, and selected OOD and contractor's facilities

EPA/DOO*/DOE Hazardous Waste Cooperative Effort

Title: External Monitoring Devices for Underground Storage Tanks

Project Objective(s): This project will investigate and attempt to validate the use of external devices for detecting leaks in underground tanks storing JP-4 jet fuels. The project will include actual field testing of devices in areas of known JP-4 leakage. Leaks in existing underground storage tanks are extremely difficult to detect using current inventory systems which rely on metered pumps and dip sticks. Current level and pressure sensing devices are improving in-tank monitoring, but give no indication of where a suspected leak is occurring. High sensitivity external devices could pinpoint tank leaks.

Description: Initial research will include a review of existing test data on emerging external leak detection devices. A field test site will be selected at an underground tank storage area and a real or simulated JP-4 leak will be used as a detection target. Several monitoring devices will be tested at varying distances from the leak to determine the limits of detection and reliability of the devices. This procedure will be repeated at another site with different soil conditions. The plan is to test both in sandy and tight clay soils.

Accomplishments to Date: AFESC proposes to do this work in coordination with on-going work at EPA EMSL.

Expected Start Date: 10/86

Expected Completion Date: 03/88

	<u>FY 85</u>	<u>FY 86</u>	<u>FY 87</u>	<u>FY 88</u>	<u>FY 89+</u>
EPA Resources Required:			Unk		
DOO Resources Required:			\$150K	\$350K	

EPA Project Coordinator:

Jeffrey Van Ee, EMSL-LV, (701/798-2367)

DOO Project Coordinator:

Mari B. Bindal, HQ AFESC/ROVW (904/293-2942)
Bill Randall, Defense Logistics Agency (202/274-6124)

DOE Project Coordinator:

J.F. McBrayer, DOE-Oak Ridge (615/576-8916)

Demonstration Project Location: To be determined.

APPENDIX B

EPA's

SUPERFUND INNOVATIVE TECHNOLOGY EVALUATION

(SITE)

PROGRAM

SUPERFUND INNOVATIVE TECHNOLOGY EVALUATION PROGRAM¹

INTRODUCTION

EPA's Office of Research and Development (ORD), joining with the Office of Solid Waste and Emergency Response (OSWER), has initiated the Superfund Innovative Technology Evaluation (SITE) Program. The SITE Program will help EPA find, test, and encourage the use of new ways to destroy, stabilize or otherwise treat hazardous wastes, rather than just burying them in the ground.

By establishing the SITE Program, EPA is responding not only to the public and to Congress, but also to internal Agency reports on the need for a program to support and encourage the development of alternative and innovative technologies.

The overall goal of the SITE Program is to maximize the use of alternatives to land disposal at Superfund sites. To help accomplish this goal, the program will provide reliable cost and performance information on technologies that offer an alternative to land disposal. This information will be generated by conducting full-scale demonstrations of alternative technologies at actual Superfund sites.

BACKGROUND

The Environmental Protection Agency's Superfund Program is designed to clean up hazardous waste sites around the country. It has been underway for five years, in which time action has been taken at over 450 Superfund sites to address longterm problems created by hazardous waste. Action taken at more than half of these sites has involved burying the hazardous wastes in specially prepared landfills.

Recently, members of the scientific community, the public, and Congress have expressed concern that it is time to move away from reliance on land disposal for handling hazardous wastes. EPA agrees with these concerns, and in response, the Agency has altered certain policies regarding hazardous waste disposal in landfills. The policies include the Superfund Off-Site Disposal Policy issued in May 1985, and the Resource Conservation and Recovery Act (RCRA) Land Disposal Restriction regulations proposed in January, 1986. In addition to these policies, the revised National Contingency Plan (NCP) under Superfund incorporates the new agency policy. These policies clearly indicate the Agency's preference for new treatment alternatives, as they describe in detail what actions must be taken to move forward in this direction. More technical and policy guidance on the use and availability of alternative technologies is expected soon.

¹ This write-up has been taken directly from EPA's Background paper on the Superfund Innovative Technology Evaluation Program.

SITE PROGRAM PHASES

The four phases of the SITE Program listed below will be conducted simultaneously. They will be integrated so that information from one phase can be used in another. Each phase is designed to meet a particular objective of the SITE Program.

The SITE Program will be periodically evaluated to determine how information produced from all phases may be used to encourage the selection of new technologies at Superfund sites.

Phase I: Identify and Remove Impediments

Trained engineers, economists, and policy analysts will study the obstacles placed in the way of technologies becoming being accepted and used to manage hazardous wastes. Resolving issues dealing with permit requirements, treatment residue disposal, liabilities, procurement requirements, and public interest will also help pave the way to increased use of treatment alternatives.

Phase II: Conduct a Demonstration Program

EPA will conduct a demonstration program for new technologies at selected Superfund sites. From these demonstrations, EPA will be able to provide performance and cost information for the new technology. This information will help EPA decide when to use the technology at other hazardous waste sites.

The demonstration program will be an ongoing effort by EPA. EPA plans to start several demonstrations as soon as possible to obtain valuable information on the most advanced technologies. Demonstrations will occur on a yearly schedule from then on. A report will be published annually for public comment which will list specific site technology demonstrations planned for that year.

Phase III: Develop Procedures and Policies

One of the basic provisions of Superfund is that the cleanup action taken at a site must be "cost-effective". New cost-effectiveness guidelines which consider long-range reliability and performance of the alternative technologies will be written. These guidelines will facilitate the use of alternative technologies which will provide a more permanent method of disposing of hazardous wastes. These procedures and policies will be available by mid 1986.

Phase IV: Research and Development

ORD will establish a research program to continually evaluate and encourage the development of emerging alternative technologies through pilot testing to full-scale demonstrations. This phase will be initiated in the spring of 1986 and will be ongoing thereafter.

THE DEMONSTRATION PHASE: A SUMMARY

Phase II, the Demonstration Phase, will be the most publically visible of the four phases. Actual work will begin at Superfund sites during the demonstration phase and the new technologies will be evaluated. While the agency is moving ahead with the SITE Program, the full legislative requirements of the program will not be known until Superfund has been reauthorized. The currently proposed legislation calls for demonstration at 10 Superfund sites per year and a program budget of between \$20 and \$25 million. Key events in the demonstration phase are summarized here:

Advertise in Commerce Business Daily

A notice announcing the availability of a request for proposals will be placed in the Commerce Business Daily (CBD) each year. Developers of new and innovative technologies are asked to write to EPA to obtain the information necessary for them to submit proposals for demonstrating their technology. Trade journals, conferences, and literature searches will also be used to seek out appropriate technologies.

Select Technologies

Potential new technologies will be carefully screened by OSWER and ORD. The screening process will be competitive and will take several months. To pass the screening, the technology must show promise to perform better than current methods, and have some other advantage such as a good potential for lower costs or the ability to treat a particularly difficult hazardous waste. The technology must have been sufficiently tested in the laboratory to show it works at that level or is ready for full-scale field testing. The necessary equipment must already be built, or be available for use by the time of the demonstration. Technologies already proven useful at Superfund sites will not normally be tested.

Match to Sites

Many of the new technologies may only be suited for specific kinds of wastes in specific settings. Using the expertise and knowledge in EPA Headquarters and the EPA Regions, technologies will be matched with wastes and available Superfund sites. This process will take approximately two months. While most demonstrations will take place on-site, some technologies may be tested at commercial hazardous waste sites or at special testing facilities operated by EPA or the developer. Factors such as risk, public interest, expense, disposal of residues and involvement of potentially responsible parties will all be considered when matching sites and wastes with technologies.

Develop and Implement Site-Specific Community Relations Programs

Once a site has been selected, a community relations plan will be developed. Through the implementation of this plan, the ideas and suggestions of local residents will be sought. The community will be

introduced to the SITE Program and its role at their local site. Information on the specific technologies will be shared, and the public will be invited to comment during the demonstration process. Implementation of community relations activities will parallel the demonstration itself.

Conduct Demonstration

After reviewing and incorporating comments on the site-specific demonstration plans, EPA will enter into a contract, letter of agreement, or cooperative agreement with the developer of the technology. The demonstration will then begin, and will last from between 1 and 24 months, depending upon the time it takes to gather information on the usefulness of the technology. The developer will usually provide the equipment and be responsible for its operation at the demonstration sites. The technology will treat actual Superfund wastes during the test, but since it is only a demonstration, it will not be expected to cleanup all the waste at the site. If necessary, another standard technology will be used to handle the remaining waste. EPA will develop quality assurance and quality control procedures for the demonstrations and will be responsible for conducting the evaluation of the technology.

Complete Evaluation and Distribute Information

At the close of each demonstration, the results of all tests will be evaluated by EPA. If the results are positive, the technology could be applied at other similar Superfund sites. Agency policies and procedures will be modified to encourage the use of these and other alternative technologies.

The results of the evaluation of each new technology will be made available throughout the hazardous waste removal industry by EPA. A technology transfer program will be developed to ensure the distribution of accurate information as quickly as possible. Further applications of the new technology will be studied.